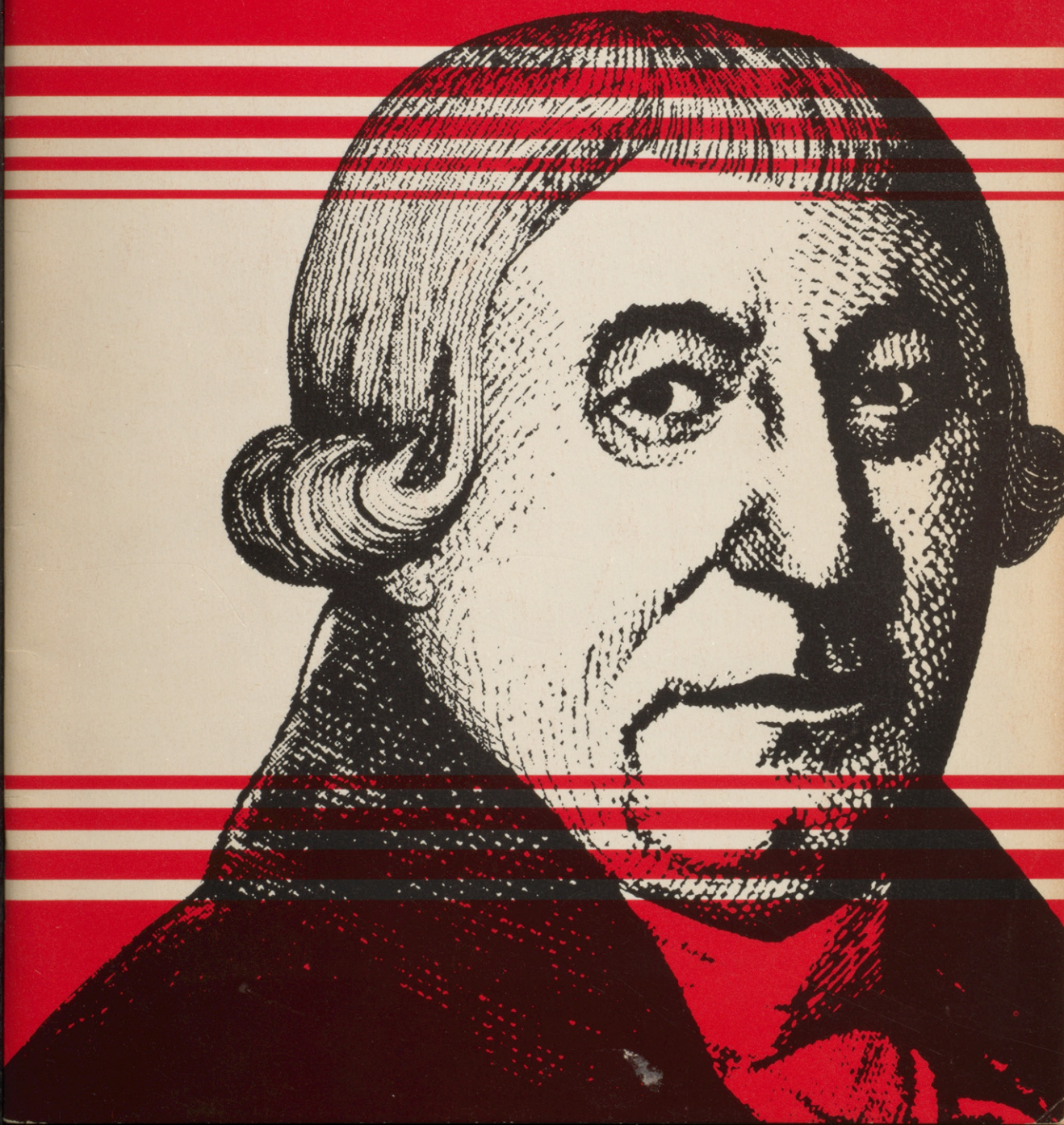
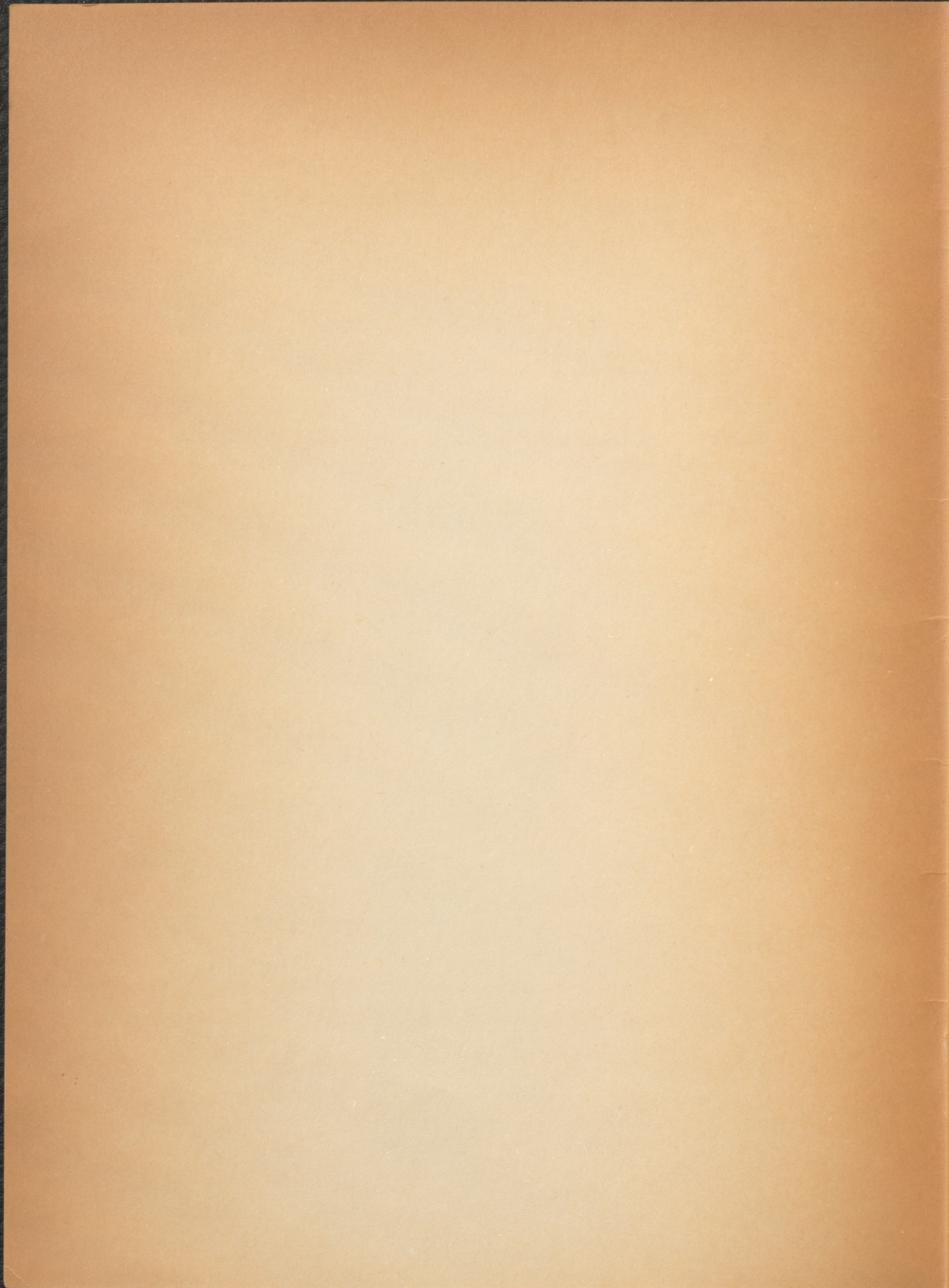


McGill University
Montreal

Faculty of
Medicine

1977-78





McGill University
Montreal

Faculty of
Medicine

1977-78

3655 Drummond Street
Montreal, PQ, Canada H3G 1Y6
Telephone (514) 392-4229

Table of Contents

- 1 Staff
 - 2 General Information
 - 3 Scholarships, Bursaries, Prizes,
Medals and Loan Funds
 - 4 Curricula, Courses of Study
and Programs
 - 5 Courses of Instruction
-

Cover illustration: reproduction of a wood-cut,
executed after a portrait of James McGill,
1744-1813, founder of McGill University.

The University reserves the right to make
changes without prior notice to the information
contained in this publication, including the
alteration of various fees, schedules and the
revision or cancellation of particular courses.

Legal Deposit I 77

Faculty of
Medicine

1977-78

3255 Don Mills Road
North York, Ontario M2H 3N5
Telephone (416) 291-4333

Table of Contents

1. Still
2. Communication
3. Educational Program, Faculty
Medicine and Health Sciences
4. Graduate Program of Study
and Program
5. Graduate Program

Over the past several years, the Faculty of Medicine at the University of Toronto has been actively engaged in a number of projects to improve the quality of its graduate programs.

The Faculty has been the recipient of a number of grants from the Government of Canada and the University of Toronto to support its efforts to improve the quality of its graduate programs. These grants have been used to support a number of projects, including the development of a new graduate program in the field of health services research.

Legal Deposit 17

1

STAFF

1.1 ADMINISTRATIVE OFFICERS

UNIVERSITY

ROBERT E. BELL, C.C., B.A., M.A.(U.B.C.),
Ph.D.(McG.), D.Sc.(U.N.B., Laval, Montr.)
LL.D.(Tor.), D.C.L.(Bishop's), F.R.S., F.R.S.C.

Principal and Vice-Chancellor

EIGIL PEDERSEN, B.A.(Sir G. Wms.), M.A.(McG.),
Ed.D.(Harv.)

Vice-Principal (Academic)

LEO YAFFE, B.Sc., M.Sc.(Man.), Ph.D.(McG.),
F.C.I.C., F.A.P.S., F.R.S.C.

Vice-Principal (Administration)

ALLAN MCCOLL, D.F.C., B.Com.(McG.), C.A.

Vice-Principal (Finance)

E.J. STANSBURY, M.A., Ph.D.(Tor.)

Vice-Principal (Planning)

W.F. HITSCHFELD, B.A. Sc.(Tor.), Ph.D.(McG.)
F.R.(Met.S.)

Vice-Principal (Research)

A.C. BLACKWOOD, B.Sc., M.Sc.(Alta.), Ph.D.
(Wis.), F.R.S.C.

Vice-Principal (Macdonald College)

COLIN M. McDOUGALL, D.S.O., B.A.(McG.)

Secretary-General

JEAN-PAUL SCHULLER, B.A.(Ott.)

Registrar

PEGGY SHEPPARD, B.Ed.(McG.), B.A.(Sir G.
Wms.)

Admissions Office, Director

FACULTY

R.F. PATRICK CRONIN, M.D., C.M., M.Sc.(McG.),
F.R.C.P.(Lond.), F.R.C.P.(C)

Dean

PIERRE H. BEAUDRY, B.A., M.D.(Montr.),
F.R.C.P.(C)

**Associate Dean
(Graduate Studies and Research)**

JAMES H. DARRAGH, B.Sc., M.D., C.M., M.Sc.
(McG.), F.R.C.P.(C)

**Associate Dean
(Postgraduate Medical Education)**

SIDNEY S. LEE, B.S., M.D., M.P.H., Dr.P.H.(Yale)

Associate Dean (Community Medicine)

RICHARD C. LONG, B.Sc., M.D., C.M.(McG.),
F.R.C.S.(C)

Associate Dean (Admissions)

MELVIN B. WISE, M.D. (U.W.O.)

Associate Dean (Medical Education)

JOHN G. HAMPSON, B.Com.(McG.), C.A.

Business Officer of the Faculty

ANNE SLOMAN, B.A.(W.V.U.)

Administrative Assistant to the Faculty

1.2 STAFF BY DEPARTMENT

Anatomy

Professors – Y. CLERMONT (*Chairman*), C.P.
LEBLOND, D.G. OSMOND

Associate Professors – G.G. ALTMANN, B.
KOPRIWA, P.K. LALA, D. LAWRENCE, N.J.
NADLER, H. WARSHAWSKY

Assistant Professors – G.C. BENNETT, J.J.M. BER-
GERON, J.R. BRAWER, E. DANIELS, M.F. LALLI,
H.J. MONIE, C.E. SMITH, M. WEINSTOCK, W.E.
WILSON

Lecturers – W.C. LIM, S. SAUNDERS, P. WARD, J.
WELLS

Anesthesia

Professors – T.J. MCCAUGHEY (*Acting Chairman*),
R.G.B. GILBERT, K. KRNEVIC

Associate Professors – J.P. DECHENE, A.J.C. HOL-
LAND, I.R. METCALF, P.E. OTTON, J.K.
ROSALES, J.W. SANDISON, D. TROP, J.E.
WYNANDS

Assistant Professors – M.S. BATRA, M.F. BUR-
FOOT, R.H. CATCHLOVE, E.M. DUNKLEY, G.E.
DUTTON, G.S. FOX, M. GERTEL, D.M.M. GIL-
LIES, G.L. HOULE, P. JACKSON, H. KESZLER,
M.E. MORRIS, C.E.B. NORGATE, F.A. ROBIL-
LARD, C.A. SHERIDAN, A.T. TAN, D.H. WAL-
LACE, M. WAHBA, S.K. WEEKS

Lecturers – M.N. ABOU-MADI, R. BORIGHT, M.J.
COOKE, L. CUADRADO, J.D.A. FIRTH, D.H. GRA-
HAM, R.S. HANNALLAH, J.R. HEWSON, F.
LAUFER, K.H. SEMENIUK, J.B. SMITH, J.M.
YACOB

Demonstrators – M. CHENG, G.W. COMBS, P.
EZPELETA, A.S. GIRGIS, I. KHAN, A.N. MUN-
GALL, S.H. RAFLA, C.R. SINGH, V. VARTIAN

Biochemistry

Professors – A.F. GRAHAM (*Chairman*), M.J. FRA-
SER, E.A. HOSEIN, D. RUBINSTEIN, S. SOLO-
MON, T.L. SOURKES, J.H. SPENCER, L.S.
WOLFE

Associate Professors – R. BLOSTEIN, P.E. BRAUN,
D.T. DENHARDT, R.M. JOHNSTONE, R.E. MAC-
KENZIE, E.A. MEIGHEN, A.R. WASSERMAN

Assistant Professors – P. DOLPHIN, E. HARPUR, W.
MUSHYNSKI

Lecturer – E. VADAS

Associated Members – M.K. BIRMINGHAM (*Psychi-
atry*) L.F. CONGOTE (*Exp. Medicine*), J. DUPRE
(*Exp. Medicine*), D. EDWARD (*Exp. Surgery*),
W.C. GALLEY (*Chemistry*), L. GOODFRIEND
(*Exp. Medicine*), M. JERRY (*Exp. Medicine*), H.
PAPPIUS (*Exp. Neurochemistry*), J.F. PERDUE
(*Jewish General Hospital*), C. SCRIVER (*Pedia-
trics*), J. SHUSTER (*Exp. Medicine*)

Biomedical Engineering Unit

Associate Professors – J.S. OUTERBRIDGE (*Direc-
tor*), M.C. MACKEY

FACULTY OF MEDICINE

Assistant Professors – T.R. FENTON, H.C. LEE, J.L. NEAL

Lecturers – R. DEMERS, J.R. IVES, C. THOMPSON, R. POULSEN

Epidemiology & Health

Professors – R.O. OSEASOHN, (*Chairman*), M.R. BECKLAKE, S.S. LEE, F.D.K. LIDDELL, A.D. McDONALD, W.O. SPITZER

Associate Professors – M. ARHIRI, D.G. BATES, W.D. DAUPHINEE, L. DAVIGNON, S. DUCIC, G.W. GIBBS, A.S. MACPHERSON, P.V. PELNAR, B. PLESS, J.W. STAMM, N. STEINMETZ, T. TAYLOR

Assistant Professors – G. EYSEN, F.R. FENTON, R. FLETCHER, S. FLETCHER, J. HOEY, I. HOROWITZ, J.W. LELLA, J.G. LOHRENTZ, J.C. MARTIN, S.H. SHAPIRO, R.F. SPENGLER, D.C. THOMAS

Lecturers – D.C. BEWS, T. GERMANSON, R.H. GHEZZO, A.K. PATERSON, B. POLLAK, R. WEST, F.M.M. WHITE

Family Medicine

Professors – W.H. PALMER (*Chairman*), J.L. McCALLUM, W.O. SPITZER

Associate Professors – M. KLEIN, C. LAPOINTE, N. STEINMETZ

Assistant Professors – M.I. de LEVIE, S.P. EDELMAN, S. FELDMAN, P.H. GRUNER, D. HURLEY, I. KUPFERSZMIDT, W.K. MacDONALD, J.D. MacLEAN, G.M. ROSENBERG, J. ROSTANT, M. SCHWARTZ, J. SEELY, A.D. SIBBALD, S. SINCLAIR, A. SUIKER, I. TANNENBAUM

Lecturers – J. BOILLAT, J.D. BROCK, G.G. CAMERON, F. MacDONALD, J. McCLARAN, R.C. MONKS, L. RIVEN, E. ROSENBERG, J. ZARINCZUK

History of Medicine

Professor – D.G. BATES (*Chairman*)

Associate Professor – J.W. LELLA

Assistant Professor – J. CASSIE

Lecturer – E.H. BENSLEY

Medicine

Professors – D.G. CAMERON, (*Chairman*) A.J. AGUAYO, D.W. BAXTER, M.R. BECKLAKE-McGREGOR, E.H. BENSLEY, J.H. BURGESS, T.M.S. CHANG, B.A. COOPER, R.F.P. CRONIN, J.H. DIRKS, S.O. FREEDMAN, C.J.P. GIROUD, P. GOLD, H. GOLDSMITH, C.A. GORESKY, R.D. GUTTMAN, W.H.P. HILL, M. HOFFMAN, M. KAYE, J. KESSLER, G. KLASSEN, P. MACKLEM, J.B. MARTIN, J.L. McCALLUM, E.E. McGARRY, M. McGREGOR, J.M. McKENZIE, J. MEAKINS, J. MILIC-EMILI, B.E.P. MURPHY, R. OSEASOHN, C.K. OSTERLAND, W.H. PALMER, J.A.P. PARE, B. ROSE, J.R. RUEDY, S. SOLOMON, D.B. TONKS,

Associate Professors – M. ARONOVITCH, C.M. BALLEM, C.H. BASTOMSKY, D. BERCOVITCH, R. BLOSTEIN, F.M. BOURNE, C.M. BRANDT, J.L. BRANDT, G.M. BRAY, G.S.D. CANTLIE, C. COLE, J. CRAWHALL, S. CRUESS, J.H. DARRAGH, W.D. DAUPHINEE, K. DAWSON, N.K.M. de LEEUW, F. DIRKS, R. DOLFUSS, S. DUCIC, J. DUPRE, E.L. FALLEN, R.R. FORSEY, H. FRANK, R.J. GARDINER, A. GOLD, A. GONDA, L. GOOD-FRIEND, A. GORDON, H. GUYDA, T.R. HALE, R. HAND, D.G. HAWKINS, J. HOGG, H.Z. HOLLINGER, J.L. HUTCHISON, L. JERRY, L. JOHNSON, G.E. JORON, A. KAHN, N. KALANT, A.G. KENDALL, D.G. KINNEAR, D. KINSELLA, J. KLASSEN, B. KOVACS, L. KOVACS, A.W. LAPIN, D.G.M. LAWRENCE, B.A. LEVITAN, M. LEVY, L.H. LORD, D.J. MacINTOSH, O.A. MAMER, R. MANGEL, P. MANSELL, D.G.F. MARPOLE, J. MENDELSON, E.N. MERCER, M.T. MILLER, S. MISHKIN, B. MOROZ, L. MOROZ, R.I. OGILVIE, C.J. PATTEE, B. POSNER, M. RASMINSKY, E.A.S. REID, L.P. RENAUD, H. ROBSON, D. RUBINSTEIN, H.M. SCOTT, S.K.K. SEAH, J.F. SEELY, J.A. SHANKS, L. SHAPIRO, J. SHUSTER, C.H. STACEY, P.B. STEWART, D. STILLWELL, D. STUBINGTON, R.A. SUTTON, A. VOST, R. WILKINSON, G.C. WILLIS, V.M. WHITEHEAD, N.B. WHITEMORE, M. ZAKARIJA,

Assistant Professors – F.Y. AOKI, E. ARENDT-RACINE, A. ARONOFF, J.T. ARSENAULT, B. BAIN, C. BANJO, H. BARKUN, P.E. BARRE, R.G. BAXTER, L.H. BAYNE, B. BHAVNANI, R.H. BOURNE, N.F. BOYD, P. BRAZEAU, D.H. BRUCE, L.E. CASSIDY, H. COHEN, G. COLE, L.F. CONGOTE, A. COOPERBERG, G. CRELINSTEIN, D.S. DALY, J.T. DANCEY, H. DAOUD, M. DAVIDMAN, P. DESPAS, D.E. DOUGLAS, J.D. ELIE, L.A. ENGEL, L.R. ESPINOZA, R. EVANSON, M.H. FINLAYSON, R.H. FLETCHER, S.W. FLETCHER, P.A. FLINT, H. FRANK, D.G. FRASER, G. FRASER, P.H.S. GEGGIE, W. GERSTEIN, G. GIANNOPOULOS, B. GIBBS, N. GILMORE, M. GODIN, M.A. GOLD, N. GOLDBERG, D. GOLTZMAN, E.R. GORDON, W. GREGORY, A. GUTKOWSKI, P. HACKER, L. HALPARIN, J.G. HELLSTROM, J.R. HOEY, D. HOLLOMBY, J. HO, A.B. HOOD, H. HO PING KONG, R.A. HUTCHEON, K. ITIAKE, M. JABBARI, M. KAPUSTA, S. KASAKURA, M. KATZ, L. KNIGHT, P. KOCH, P.A. KONGSHAVN, H. KREISMAN, C.F. KUDO, W. LEITH, J. LEMIRE, M. LICHTER, J. MacAULAY, A.D. MacDONALD, J.I. MacDONALD J.I. MacDOUGALL, K.R. MacKENZIE, R.J. MACKLER, R.R. MARTIN, D. McGOLDRICK, P.J. McLEOD, A. MILLER, M. MILLER, I. MILNE, M.J. MIOT, S. MISHKIN, R. MITCHELL, P. MLYNARYK, K. MOSES, S. MULAY, P.V.N. MURTHY, A. NANCEKIVELL, J. OH, V.R. PATERAS, E.J. PINTER, J.S. POLSON, J. PORTNOY, S. PRESANT, G. QUAMME, F. RABOW, R.E. RANGNO, J.T. RATNER, D.H. REILLY, L.P. RENAUD, J.R. RISHIKOFF, M. ROSS, J. ROSTANT, B. ROWAT, A. ROSENBERG, A. ROTENBERG, O.L. SCHLAPPNER, J.

SCHWARTZ, S. SEGALL, E.A. SHAFFER, E. SKAMENE, M.R. SMITH, A.D. SNEIDERMAN, S.H. SOLOMON, J. SOLYMAR, T.J. SULLIVAN, R.A. SUTTON, P. SZEGO, H. TANNENBAUM, W.F.T. TATLOW, P.P. TELNER, A.M. TENENHOUSE, A. TENPAS, M.P. THIRLWELL, D.M.P. THOMSON, G. TOLIS, M. VAS, F. VASEY, R.M. VEXLER, R.W. WADDELL, H.A. WARNER, W. WARNICA, J. WENER, W.A. WHITELAW, I. WINKLER, D.H. WOODHOUSE, H.M. ZACKON, D. ZBOROWSKA-SLUIJS, J. ZIDULKA,

Lecturers – E. ADELSON, J.R. ALBERT, S. AMRA, F. ANDERMANN, S. BEKHOR, R. BILEFSKY, H. BLUMER, M.A. BOCTOR, P. BOURGOUIN, R. BRODRICK, D. CHESNEY, P. CHESNEY, M. CLAMEN, H. COHEN, M.S. COHEN, W. COHEN, S.R. COOPER, M.G. COSIO, D. CYNBERG, F.A. D'ABADIE, J.T. DANCEY, M. DAVIDMAN, W.D. DORIAN, S. EDELMAN, S.L. EIDINGER, S. FELDMAN, C.A. FISHER, D.C. FRASER, C. GOMBERG, D. GRATTON, P.H. GRUNER, E.R. GUBBAY, R.G.M. HARBERT, M.A. HICKEY, T. HUSSCHER, I. HUTCHISON, J. IRWIN, P. KASIRER, R.J. KENNEDY, G. KOMAROMI, M. KOVALIK, H. KREISMAN, M. KUNSTLER, W.A.R. LAING, I. LAPIN, E. LARYEA, P. LEVINE, I. LUHOVY, C.C. MacDONALD, N. MacINTOSH, J.D. MacLEAN, A.J. MacLEAN, B.R. MacKENZIE, E. MARCOTTE, J.W. McMARTIN, G.P. McNEILL, B.G. MURPHY, E. MURRAY, J.A. MUSPRATT, T.J. O'CALLAGHAN, J.A. PHILLS, C. PICK, E.J. PINTER, R.E.G. PLACE, B. POLLACK, H. POMERANTZ, J. PORTNOY, A.H. POWELL, L.D. RAPHAEL, J.T. RATNER, A.A. RAYES, L. REDMOND, H. REISLER, G. ROBERGE, S. RONA, H.E. ROSS-MIDGLEY, M. ROZENFELD, P. SCHNEIDER, T. SHIFF, H.E. SHISTER, R. SHULMAN, R. SINGH, P. SMALL, A.H. TINMOUTH, S.M. VARGA-SOLYMO, G.W. VAVRUSKA, C. VERA, I. WEINTRUB, S. WELLER, G.H. WORSLEY, N. YUSIF, J. ZARINCZUK,

Associated Members – A. BARBEAU, R. BOUCHER, M. CHRETIEN, J. DAVIGNON, J. GENEST, C. MORIN, S. PANDE, J. ROJO-ORTEGA, T. SANDOR,

Microbiology and Immunology

Professors – S.I. VAS (*Chairman*), B.H. MATHE-SON, W. YAPHE

Associate Professors – Z. ALI-KHAN, C.A. BUTAS, E.C.S. CHAN, J. deVRIES, P. GILL, R. HAND, L. KAPICA, C.H. PAI, G.K. RICHARDS, H.G. ROBSON, R. SIBOO

Assistant Professors – A.F. DOSS, I.B. FABRIKANT, J.E. FEIN, J. GORDON, E. MANKIEWICZ, M. MARKS, L. MARTINEZ, J.L. MEAKINS, J. MENDELSON

Lecturers – M. BLANC, S. NOMMIK

Demonstrator – C. SHAW

Associated Members – R.D. GUTTMANN, C.K. OSTERLAND

Neurology and Neurosurgery

Professors – W. FEINDEL (*Chairman*), D.W. BAXTER, G. BERTRAND, R.G.B. GILBERT, P. GLOOR, J.B. MARTIN, F. McNAUGHTON, B. MILNER, T. RASMUSSEN, P. ROBB, J.G. STRATFORD, L. WOLFE

Associate Professors – A. AGUAYO, F. ANDERMANN, J. BLUNDELL, G. BRAY, S. CARPENTER, J.B.R. COSGROVE, A. EISEN, R. ETHIER, R. HANSEBOUT, I. HELLER, G. KARPATI, T. KIRKHAM, D. LAWRENCE, I. LIBMAN, G. MATHIESON, A. OLIVIER, H. PAPPUS, A. SHERWIN, D. TROP, G. WATTERS, Y.L. YAMAMOTO

Assistant Professors – E. ANDERMANN, P. BRAZEAU, R. CATCHLOVE, C.J. DILA, M. FINLAYSON, R. FORD, B. GRAHAM, D. MELANCON, K. METRAKOS, M. MORRIS, A. MORTON, M. RASMINSKY, L. RENAUD, W. SHEREMATA, W.F.T. TATLOW, J. WOODS

Lecturers – M. AUBE, S. BEKHOR, G. BELANGER, L. CUADRADO, R. HOLLENBERG, P. HUMPHREYS, J.R. IVES, M. LECHTER, J. LITTLE, C. MELMED, W. OLANOW, S.J. ROTHMAN, C. STRAUSS, L. TAYLOR, C. THOMPSON

Obstetrics & Gynecology

Professors – F. NAFTOLIN (*Chairman*), R.A.H. KINCH, J.P.A. LATOUR, K. RUF, F.J. TWEEDIE

Associate Professors – G.H. ARRONET, H.B. BOURNE, B. CATTERILL, J.R. DODDS, A. FERENCZY, M.M. GELFAND, M. HENDELMAN, T. PRIMROSE, R.J. SEYMOUR, R.H. USHER, M.V.H. YOUNG

Assistant Professors – R.M. AIKMAN, A. ASSWAD, P.R. BLAHEY, J. BRAWER, J. CHALLIS, J.E. COFFEY, R. DENT, E.B. de KOOS, A. de LEON LAURENZA, P.G. GILLET, S. GOLD, G. HABER, A. LALONDE, M. LEONG, C.C. LINDSAY, E.A. MacCALLUM, C. NUCCI, A. PAPAGEORGIOU, R.M. PARSONS, D. POPKIN, R.M.H. POWER, JR., L.D. RHEA, T.N. ROMAN, M. SABIN, L.P. SMITH, G. TOLIS, A. TOTH, D. WILLIS

Lecturers – N. BAKAR, M.E. BOYD, N. BUKA, J. CHOW, P. DORR, P. FOURNIER, R.D. KOBY, K. ROSENFELD, J. STOCKER, E.C. TUCKER

Demonstrators – O. BALABANIAN, S. BODNAR, N.L. CASSAR, N.H. CHAPMAN, W.A.R. COOKE, I.B. GLICKMAN, W. GOLDSMITH, M.S. GURALNICK, R. KAPUSTA, G. MALLOUH, J.G. MULCAIR, A.A. NEUMAN, R.N. SHATZ, G. SIGMAN, L. VENECEK

Ophthalmology

Professors – S.B. MURPHY (*Chairman*), S.T. ADAMS, J.C. LOCKE

Associate Professors – T.H. KIRKHAM, W. TURNBULL

FACULTY OF MEDICINE

Assistant Professors – S. BROWNSTEIN, P.L. DAVIS, L.S.S. KIRSCHBERG, A.B. LEITH, J.M. LITTLE, D.W.C. LORENZETTI, R.B. RAMSEY, P. ROSENBAUM, N.E. SAHEB, H.L. TANENBAUM
Lecturers – D. ANDERSON, P.A. CAPOMBASSIS, P. DAWSON, H.A.G. DUNCAN, J.A. FOREMAN, E. GORDON, W.B. JACKSON, A.H. KATZ, M. KHALIL, R. LEWANDOWSKI, R.W. PEARMAN, R.C. POLOMENO, K.E. SCHIRMER, E.D. SVARC, E. WERNER

Otolaryngology

Professors – J.D. BAXTER (Chairman), D.G. DOEHRING, D. LING
Associate Professors – K.K. CHARAN, J.S. OUTERBRIDGE, E.J. SMITH
Assistant Professors – E. ATTIA, M.J. BLACK, B. BRYANS, H. CAPLAN, N. CHAN, A. COHEN, A. GROSSMAN, H.H. ILECKI, A. KATSARKAS, R. LAFLEUR, D. LECKI, M.N. LEVITT, A. LING, M. MENDELSON, S. MATTINGLY, J.C. McNUTT, M. MENDELSON, W.H. NOVICK, C. REED, M.D. SCHLOSS, R. SHAPIRO, G. SHIMO
Lecturers – I. FRIED, J. LEE, R.M. McMILLAN, G.M. SINCLAIR, J. SINGH

Pathology

Acting Chairman – J.B. RICHARDSON
Professors – R. BOLANDE, W.P. DUGUID, J.C. HOGG, S.N. HUANG, D.S. KAHN, J.P.A. LATOUR, M.G. LEWIS, R.H. MORE, G. RONA, H. SHELDON, G. TREMBLAY, F.W. WIGLESWORTH
Associate Professors – M.N. AHMED, S.H. CARPENTER, A. FERENCZY, M.H. FINLAYSON, E.A. HOSEIN, I. HUTTNER, M.E. KIRK, J. KLASSEN, J. KNAACK, J.R.C. LACHANCE, J.O. LOUGH, K.G. MARSHALL, G. MATHIESON, D.R. MURPHY, D. MURRAY, M.R. REESAL, E. ROSENMAN, G. ROWDEN, T.A. SEEMAYER, N.S. WANG, B.I. WEIGENBERG
Assistant Professors – B. ARTINIAN, J. BELAND, G.R. BERRY, S. BROWNSTEIN, M.L. de CHAMPLAIN, R.D.C. FORBES, W. HAUSER, D. HAEGERT, S. INOUE, D. KALOUSEK, M. MANDAVIA, R. MICHEL, MOINUDDIN, A. RONA, P. SCHOPFLOCHER, J. VILORIA, J.L. WEBB
Lecturers – J.P. de CHADAREVIAN, L. DESORMEAU, J. EMOND, B. MANASC, K. MEAGHERVILLEMURE, P. PATEL, Y. ROBITAILLE, H. SROLOVITZ, B. SUPERVILLE-SOVAK, B.M. WOLANSKYJ

Pediatrics

Professors – K. DRUMMOND (Chairman), R. BOLANDE, E. COLLE, F.C. FRASER, C.R. SCRIVER
Associate Professors – P. BEAUDRY, M. BELMONTE, D. CLOGG, G. COLLINS, N.R. EADE, A.H. EISEN, J. GIBBONS, C. GIROUD, H. GOLDMAN, H. GUYDA, M. MARKS, A. NEIMS, E.W. OUTERBRIDGE, S. PEDVIS, L. PINSKY, B.

PLESS, N. STEINMETZ, R. USHER, G. WATERS, E.M. WORDEN

Assistant Professors – G. AHRONHEIM, F. ANDERMAN, J. ARANDA, J. AYOUB, P. BENJAMIN, H. BRICKMAN, H. BRODIE, S. BUCKLEY, J. CHARTERS, M. COREY, A. COWAN, R. DeBELLE, C. DUPONT, J.H. ELDER, J. FONG, P. FORBES, F. GLORIEUX, R. GOLD, E. HARPUR, P. HUMPHREYS, R. HUTCHEON, B. KAPLAN, G. KARPATI, M. KLEIN, K. METRAKOS, B. MOROZ, J. NEAL, G. NICKERSON, B. NOGRADY, J.H. O'NEILL, A. PAPAGEORGIOU, P. PENCHARZ, E. REECE, D. ROSENBLATT, A. STACHEWITSCH, H. STRAWCZYNSKI, H. SURCHIN, W.W. TIDMARSH, R. WILLIAMS, D. WILLIS, M. WISE

Lecturers – W.J. ALEXANDER, U. CALLEGARINI, A. CHAN YIP, M. CHERNIAK, L. CHEVALIER, J. CHIU, D. COULTER, B. COSTOM, M. de LEVIE, E. DELVIN, J. DEMERS, A. FELDMAN, Z.R. FOX, V. GOLDBLOOM, C. GRANDBOIS, J. GULYAS, T. GUNN, P. HECHTMAN, M. HUNTER, P. JUNGER, H. KAHNE, M. KAZEMI, J.L. LEBLANC, C. LEJTENJI, SOOK LEE, W. MacDONALD, F. MOHYUDDIN, R. PINCOTT, S. ROTHMAN, T. ROUSSEAU, P. SPIER, N. STEIN, M. WESTWOOD, F. WIENER, W. WOELBER, I. WRIGHT, A. ZELIGER

Demonstrators – J. BELLEY, A.C. BERNARD-BONNIN, P. CAMFIELD, D. DIKRANIAN, F. DOUYON, A. GORDON, C. GRADINGER, H. GRADINGER, S. GUTTMAN, G. HEWITSON, S. KHAKEE, V. KHEDIGUIAN, J. KITEALA, A. KOVACS-BIMBI, F. LEHMANN, D. LORENZ, K. LUBKIEWICZ, G.H. LUPU, B. MANDEL, A.J. MARKUS, R. MARTIN, D. MCCRIMMON, P. NEUMANN, M. PAMUKOFF, J.P. POIRIER, B. QUESNEL, D. RABIN, E. RABINOVITCH, M. ROCHETTE, S. ROCHMAN, M. ROZENFELD, A. StDENIS, P. SENECA, J. SHARP, C. WANG, N. WASSEF, F. WISEMAN, H.O. YOUNG

Pharmacology and Therapeutics

Professors – J.R. RUEDY (Chairman), B.G. BENFEY, D. ECOBICHON, J. LOWENTHAL, M. NICKERSON

Associate Professors – R. CAPEK, B. COLLIER, N.R. EADE, A.H. NEIMS, R.I. OGILVIE, B.I. SASYNIUK, A.M. TENENHOUSE, J.M. TRIFARO, D. VARMA

Assistant Professors – F.Y. AOKI, J. ARANDA, L.W.K. CHUNG, B. ESPLIN, E. KOVACS, J. KREEFT, G. KUNOS, P.J. McLEOD, A. PADJEN, R.E. RANGNO, J.B. RICHARDSON, B. ROBAIRE, D.S. SITAR, M.S. YONG

Lecturer – D.S.R. EAST

Physiology

Professors – J. MILIC-EMILI (Chairman), R.I. BIRKS, T.M.S. CHANG, B.A. COOPER, P. GOLD, K. KRNEVIC, F.C. MacINTOSH, G. MELVILL JONES

Associate Professors – H.K. CHANG, M.W. COHEN, M.M. FROJMOVIC, L. GLASS, V. KLISSOURAS,

W.S. LAPP, M. LEVY, M. MACKEY, G. MANDL, G. MISEROCCHI, J.S. OUTERBRIDGE, C. POLOSA, P. SEKELJ, A. WECHSLER, R.L. WILLIAMS

Assistant Professors – A.W. CHAWLA, P. KONGSHAVN, K. LUKOWIAK, P. NOBLE, S. POTASHER, D.G.D. WATT, P. WELDON

Lecturer – E. CHIRITO

Associated Members – J. CHALLIS (*Obstetrics & Gynecology*), R.F.P. CRONIN (*Medicine*), B. DUBROVSKY (*Psychiatry*), L. ENGEL (*Medicine*), H.L. GOLDSMITH (*Medicine*), C.A. GORESKY (*Medicine*), A. GRASSINO (*Medicine, U. of Montreal*), D. HORROBIN (*Medicine, U. of Montreal*), P.T. MACKLEM (*Medicine*), M. MCKENZIE (*Medicine*), M.M. MORRIS (*Anesthesia*), S. ROSSINOL (*Medicine, U. of Montreal*), J.F. SEELY (*Medicine*)

Psychiatry

Professors – M. DONGIER (*Chairman*), M.K. BIRMINGHAM, H. CAPLAN, B.M. CORNIER, H. KRAVITZ, H.E. LEHMANN, A.W. MacLEOD, R.B. MALMO, A.M. MANN, H.B.M. MURPHY, T.L. SOURKES

Associate Professors – J.V. ANANTHARAMAIAH, F. AZIMA, H. DAVANLOO, I.S. DISHER, B.O. DUBROVSKY, P.G. EDGELL, W.D. ENGELS, F. ENGELSMANN, R.B. FELDMAN, B.A. GIBBARD, B. GRAD, L.G. HISEY, S. LAL, A.P. LEE, E.P. LESTER, J.G. LOHRENTZ, F.W. LUNDELL, A.S. MacPHERSON, D.J. McCLURE, H.F. MULLER, J. NAIMAN, J.C. NEGRETE, R. PITTENGER, E.G. POSER, R.H. PRINCE, J.J. SIGAL, L. SOLYOM, J.R. UNWIN, G. WEISS

Assistant Professors – N.R. ALDOUS, M.M. AMIN, C.C.J. ANGLIKER, A. BARTOVA, S. BARZA, J. BEAUBIEN, P.R. BECK, C. BOS, C. CAHILL, C.H. CAHN, G. CHOUINARD, L. CUMBERLAND, J.F. DAVIS, E.G. DEBBANE, S. DONGIER-MONTAGNAC, F. FENTON, H. GRAUER, H.A. GUTTMAN, G.P. HARNOIS, L. HECHTMAN, B.R. HUNT, T. KOLIVAKIS, D.C. LEVIN, E.D. LEVINSON, H.L. LEVITAN, J.G. MAGUIRE, G.F. MORGENSTERN, N.P.V. NAIR, E. NALTCHAYAN, G. PETERFY, D. PIVNICKI, R.A. RAMSAY, J. RUIZ-NAVARRO, S. STEIN, G.C. TAYLOR, G. TURCOT, L. VACAF-LOR, S. WILNER, N. WISEBORD, S.N. YOUNG, C. YUNG

Lecturers – E.H. ACHONG, R. ARBITMAN, K. ARVANITAKIS, H. AST, S. BAYRAKAL, P.S. BELIVEAU, C. BENIERAKIS, A. BESZTERCZEY, D.H. BETTS, S. BIKADOROFF, L. BUFFETT, P.B. CAMPBELL, S. CAMPBELL, A.J. CARRE, M. CERROLAZA, J.D. CUTHILL, L. DEMERS-DESROSIERS, H.A. EVANS, H. FREEDMAN, P. GAGNON, J. GARANT, K. GEAGEA, L. GOMEZ, P. GREGOIRE, L. GUERETTE, A. HAUSFATHER, L. HUAPAYA, R. KACHANOFF, R.A. KELLER, R. KIRIAKOS, L. KRAULIS, F.E. KRISTOF, D.J. KUSSIN, M. LALINEC-MICHAUD, C. LAROCHE, G. LAROCHELLE, J. LEVY, G. LOW, G.W. MacLEAN, H.P. MALMO, S.A. MARTIN, A.F.

MESZAROS, R.C. MONKS, A.K. MULLER, J.P. NOONAN, D.P. NOWLIS, J. PARIS, J.C. PECKNOLD, I. REBNER, B.M. ROBERTSON, M.M. ROMER, P. ROPER, M.G. SALIB, P.D. SCULLY, R.W. SHEPHERD, S.P. SIMONS, F.A. SMITH, R.M. SMITH, A.A. SURKIS, G. TAHTA, D.S.C. TSANG, D.J. WOOD, P. ZUARDI

Demonstrators – E. ABDELMALEK, J. ALARCIA, S. ANG, P. ASSALIAN, C. BARRIGA, A.O. BARRON, J. BEAUDRY-REMILLARD, J. BENAROYA, E.J. BRAHM, R.D. BROWN, J. CANFIELD, H. CVEJIC, J.L. DeRIVERA, D.F. FRANK, S.C. GAITE, J.P. GAMACHE, C. GOLDEN, G. GREGORIOU, G. HENNING, K. JIMENEZ, R. LAJOIE, R. LAKOFF, M.R. MacFARLANE, K. MISSALA, R. OLIVEROS, S. PERZOW, R.M. RICHARD-JODOIN, N. ROGERS, G. ROSENBERG, A. ROSS-CHOUINARD, N. SOURIAL, M. SUBAK, A. SHEPPARD, G. TAFER, R. TIROL, C. VILLENEUVE, G.S. WIVIOTT, R. YASSA, G. ZIMMERMAN

Associated Members – T.A. BAN, J.A. CORSON, V.A. KRAL

Diagnostic Radiology

Professor – J. FABRIKANT (*Acting Chairman*)

Associate Professors – W.J. ALEXANDER, W.P. BUTT, R. ETHIER, P.A. FARRER, R.O. HILL, M.B. NOGRADY, M.J. PALAYEW, L. ROSENTHALL, I. SEDLEZKY, G.B. SKINNER, F. WINSBERG

Assistant Professors – F.M. BOSTON, P.J. FITZGERALD, J.H. GAGNON, F.A. GRAINGER, B.B. HALE, M.J. HERBA, N.A. KHAN, D. MELANCON, A.D. ROTENBERG, V. SAYEGH, R.E. WILSON

Lecturers – V. ADRENYI, A. ARZOUMANIAN, G. BELANGER, F. BOURDON-CONACHIE, J.D. CHAN, S. DANAIS, M. DESAULNIERS, J.M. DUMAS, A.D. FRENCH, A. GLAY, M. GOLDENBERG, M.F. GRAHAM, R.E. HANSON, R.S. HIDVEGI, B.B. HYAMS, S. JEQUIER, D.A. KILLAM, R. KIMOFF, P. LANDER, A.H. LATOUR, R. LESPERANCE, W. LIGHT, A. LISBONA, R. LISBONA, A. NAIMARK, M.S. NATHENS, M. O'DONOVAN, A.M. O'GORMAN, D.R. PATTON, M.F. PINSKY, H. REMY, M. ROSENBLUM, R. SATIN, S.S. SHARE, D.N. SHUSTER, R.L. SLATKOFF, J.W. SPRAGGE, L.A. STEIN, J. TOH, M. USHER, R.L. WEE, G. WHITEMAN

Demonstrators – G.F. DeCAIRES, S. TAYLOR

Instructor – G.A. WILKINSON

Associated Member – J.C. HOGG

Therapeutic Radiology

Professors – J.H. WEBSTER (*Chairman*), M. COHEN

Associate Professors – P.A. FARRER, J.J. HAZEL, T.N. ROMAN

Assistant Professors – P. DEL VECCHIO, J.F. GUERRA, T.H. KIM, S.M. LEHNERT, E.B. PODGORSK, K. SHIN

Lecturers – E.P. CYTACKI, C. GRAVELINE

Demonstrator – F. BEHMANN

Surgery

Professors – A.G. THOMPSON (*Chairman*), L.G. HAMPSON, L.D. MacLEAN, D.R. MURPHY, F.M. WOOLHOUSE

Associate Professors – H.E. BEARDMORE, N. BEL-LIVEAU, M.A. ENTIN, R.L. ESTRADA, R.D. GUTTMAN, H.S. HIMAL, E.J. HINCHEY, G.M. KARN, D.T.W. LIN, R.C. LONG, P. MANSELL, A.P.H. McLEAN, E.D. MONAGHAN, J.R. MOORE, P.H. NILOFF, W.L. OGILVY, H.F. OWEN, J.D. PALMER, H.R. SHIBATA, I. SHRAGOVITCH, E.J. TABAH, H.B. WILLIAMS

Assistant Professors – C.M. ALLAN, H.C. BROWN, R.A. BROWN, A.M. CLOUTIER, D. CUNNINGHAM, J.C. DICKISON, R.G.W. GOODALL, A.E.N. GRACE, F. GUTTMAN, H. HIMAL, A. HRENO, R.N. LAWSON, G.W. LEHMAN, R.T. LEWIS, W.C. LLOYD-SMITH, J.K. MacFARLANE, G.G. MAC-KIE, R.G. MARGOLESE, B. MARIEN, K.G. McCULLOCH, J.L. MEAKINS, D.W. RUDDICK, G. SCHWARZ, I. SHANFIELD, N.M. SHEINER, H. SHIZGAL, H.H. SIGMAN, M. THIRLWELL, B.L. THOMPSON, M. WEXLER, F.M. WIEGAND

Lecturers – C.M. ALLAN, M.S. CHUGHTAI, P. COHEN, G.A. DANIEL, A.N. FREEDMAN, L.G. GENENDER, E. JOMM, A.M. LEGARE, P. MADORE, H.W. MERRICK, G.S. MODE, R.V. MORALEJO, J.J. OSTAPOVITCH, D.R. OWENS, D.F. PAPICH, G.J. PEARL, A.S. POPIERAITIS, F.L. SIMON, H.D. STEVENS, T. TY, S.A. YOUSEF,

Demonstrator – R. CREPEAU

Associated Members – F.N. GURD, H.R. ROBERTSON

Division of Cardiovascular and Thoracic Surgery

Professors – A.R.C. DOBELL, H.J. SCOTT

Associate Professors – P.E. BLUNDELL, D.J. CHIU, J. MORIN, D.S. MULDER, D.D. MUNRO

Assistant Professors – J.F. SYMES, J.A.S. WILSON

Lecturer – N. POIRIER

Division of Surgical Research

Professors – L.D. MacLEAN, D.R. MURPHY, A.G. THOMPSON

Associate Professors – D.M. EDWARD, F. GLO-RIEUX, J. GORDON, E.J. HINCHEY, S.C. SKORRYNA

Assistant Professors – A.M. DANIEL, E. DELVIN, A.G. FAZEKAS, H. HIMAL, C.A. LAURIN, A.H. McARDLE, W.M. MERSEREAU, A.R. POOLE, Y. TANAKA

Lecturers – L. GREENBERG, C. PIERCE, M. VAN DER REST

Division of Orthopedic Surgery

Professors – R.L. CRUESS, J.E. MILLER

Associate Professors – R.B. GLEDHILL, J.M. McINTYRE, N. MITCHELL, E.C. PERCY, J.G. PETRIE

Assistant Professors – C.E. BROOKS D.L. BURKE, L.B. CONOCHIE, D.S. DRUMMOND, W. FISH, F.A.H. GREENWOOD, D.A. MacKENZIE, G.R. MURPHY, W.R.J. RENNIE, E. ROGALA, M.A. ROSMAN, J.L. SHUGAR, J. TEMPLETON, R.G. TOWNSEND, C.L. WILSON, W.E. WILSON

Lecturers – A.A. BUTLER, B.J. COSTELLO, D.R. FORBES, L. HELLER, T.S. MEARS, J.D. SULLIVAN

Demonstrators – H.I. DUBOW, P. DUBRAVCIK, L. GREEN, H.F. HELMY, G. SELIGMAN, T.N. SILLER

Division of Urology

Professor – K.J. MacKINNON

Associate Professors – B.M.M. MOUNT, J. OLIVER, E.C. REID

Assistant Professors – C.F.D. ACKMAN, J.W. FOOTE, M. LAPLANTE, W.F. LINGARD, D.D. MOREHOUSE, J. OH, Y. TAGUCHI

Lecturers – I.J. de DOMINICO, S.A. JACOBSON, S.G. MacISAAC, T. NEARING, H.H. RABINOVITCH, H.A. ROTTENBERG

Demonstrator – N. HALPERN

2

GENERAL INFORMATION

The one hundred and forty-fifth session of the Faculty will open on September 1, 1977.

Separate Announcements are available for the School of Physical and Occupational Therapy and the School of Nursing.

2.1 BUILDINGS

McIntyre Medical Sciences Building

This building contains the administrative offices of the Faculty of Medicine, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Therapeutics and Physiology, the McIntyre Animal Center and a number of special research units (e.g. Anesthesia Research, Aviation Medical Research, Biomedical Engineering and the Cancer Research Unit).

Strathcona Anatomy and Dentistry Building

This building houses the Department of Anatomy, the Faculty of Dentistry and the Protein and Polypeptide Laboratory of the Department of Experimental Medicine.

Pathology Building

Opened for use in October 1924, the building is situated on the north-east corner of University Street and Pine Avenue, adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of

Microbiology and Immunology, Epidemiology and Health and Pathology. The building has extensive facilities for teaching, research and diagnosis, including the interdisciplinary Meakins-Christie Laboratories which opened in August 1972.

The Montreal Neurological Hospital and the Montreal Neurological Institute

The Hospital and Institute are housed in an eight-storey building, situated on University property adjacent to the Pathology Institute and the Royal Victoria Hospital. The Institute was opened on September 27, 1934 and as the cornerstone states is "Dedicated to relief of sickness and pain and to the study of Neurology". The McConnell Wing was opened in 1953, doubling both the clinical and laboratory space. Originally the Institute assumed the responsibility for the undergraduate and graduate teaching of neurology, neurosurgery and the neuro-sciences in the Faculty of Medicine at McGill. The teaching and research responsibilities have been divided between the McGill teaching hospitals. In 1963 the Montreal Neurological Hospital was incorporated as a separate institution. The Hospital and Institute therefore have three areas of responsibility: clinical, research and teaching. In addition to wards, operating rooms and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in related basic science fields. A nine-storey addition, the Penfield Pavilion, will be completed by 1978. This will provide modern patient areas, operating suite and intensive care unit, together with enlargement of research and teaching areas.

Allan Memorial Institute

In 1943 a large building and site were donated as a basis for the development of an institute of psychiatry. The building was reconstructed to permit the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened on July 12, 1944.

In 1946 the first day-hospital in the world was opened at the Institute and in 1953 a fifty-bed wing was added.

A research and training building was added by McGill University in 1963, providing one of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

Donner Building

The Donner Building for Medical Research, adjacent to the Strathcona Anatomy and Dentistry Building, was completed in September 1948. Through the generosity of William D. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, the necessary funds were

provided for the construction of a building entirely devoted to medical research.

The building houses the Maxwell Lauterman Laboratories for Surgical Research, and also provides facilities for many other types of medical and surgical investigation.

Lady Meredith House

Situated at 1110 Pine Avenue West, this building currently houses the Centre for Medical Education, Continuing Medical Education, the McGill Clinical Scholars' Program, the Montreal Joint Hospital Institute and the Associate Dean's Office (Community Medicine).

2.2 HOSPITALS

McGill University Teaching Hospitals

There are four McGill University Teaching Hospitals. By agreement and tradition the administration, medical staff and scientific personnel of these institutions are closely integrated with McGill University and form the basis for the clinical departments of the Faculty of Medicine:

Royal Victoria Hospital
Montreal General Hospital
Montreal Children's Hospital
Montreal Neurological Hospital and Institute

The Royal Victoria Hospital comprises the following units under one administration:

1. Main Pavilion
2. Medical Pavilion
3. Surgical Pavilion
4. Ross Memorial Pavilion
5. Women's Pavilion
6. Allan Memorial Institute

The total bed complement is 873. Admissions total about 22,000 a year and there are more than 260,000 visits annually to the Outpatient Department. The resident and intern staff numbers 319.

The Royal Victoria Hospital was granted its Charter in 1887. The Pathological Institute and the Women's Pavilion of the Royal Victoria Hospital were opened in 1926 and the Allan Memorial Institute (Psychiatric Pavilion) became part of the hospital complex in the 1940's.

The Montreal General Hospital has a bed complement of 900 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 200,000 consultations in the Emergency and Outpatient Departments. The Resident and Intern staff numbers 275. "The Montreal General" was founded in 1821 and its record in clinical

teaching is one of the longest in North America. Students were first received in 1823, in what was the first medical school in Canada. This school agreed to form the Faculty of Medicine in 1829.

The present Hospital was opened in 1955. In addition, a five-storey Research Building was opened on Hospital grounds in late 1973.

The Montreal Children's Hospital located on Tupper Street near the Atwater Metro Station, has 300 beds and, in a typical year, admits 12,000 patients. The Ambulatory Services have approximately 200,000 visits, 60,000 in Emergency and 140,000 in the clinics. The hospital admits newborn infants, children and adolescents with all kinds of medical and surgical problems.

The Alexandra Pavilion (formerly the Alexandra Hospital) is now part of The Montreal Children's Hospital and is a centre for diagnostic assessment and treatment programs for retarded children and other programs in developmental medicine.

An active teaching program is maintained for the medical students and for the 125 interns and residents. There are also teaching programs for nursing students and other health professionals. The McGill University-Montreal Children's Hospital *Research Institute* is located in the hospital and sponsors research and postgraduate education in disciplines related to problems of childhood.

The Montreal Neurological Hospital at 3801 University Street, provides neurological and neurosurgical services for the Royal Victoria Hospital and is itself, a completely independent hospital with its own corporation and Board of Directors. There are 135 beds which provide for the investigation and care of patients with organic diseases of the nervous system. The hospital provides the major undergraduate and graduate teaching load of the Department of Neurology and Neurosurgery of McGill University, in conjunction with the other McGill teaching hospitals. In 1975, 1,952 admissions and 730 operations were recorded. Within the same structure, the Montreal Neurological Institute provides laboratories, specialized equipment and a distinguished scientific staff for research in the disorders of the brain and nerves. A nine-storey addition, the Penfield Pavilion, will be completed by 1978.

Specialty Teaching Hospitals

The following hospitals are affiliated with the McGill University Faculty of Medicine. All the departments and services of these hospitals participate in teaching and research in a single specialty:

Douglas Hospital
Montreal Chest Hospital Centre

The Douglas Hospital was opened in 1890 as a centre for the specialized care of mental illness of

short and long term duration. There are facilities for children, adolescents, adults and elderly patients. Services are offered as part of an integrated network of psychiatric services, in cooperation with various departments of psychiatry of general hospitals. There is a comprehensive community psychiatric program offered to residents of Ville Emard, Ville LaSalle, Verdun and Pointe St. Charles. There are approximately 1,130 admissions per year and 18,200 visits at the out-patient clinics per year.

The hospital provides clinical instruction and training for residents in psychiatry and in pediatrics, as well as medical students and students of various paramedical disciplines. Experience can also be obtained in research through the activities of the Research Department of the hospital.

The Montreal Chest Hospital Centre is a McGill teaching, training and research specialty hospital, for all diseases of the chest, excluding the heart and great vessels. It operates on an out-patient and in-patient basis including a large general chest and tuberculosis clinic. The hospital contains 124 beds and its facilities include operating rooms, general, special and research laboratories, fully equipped pulmonary function laboratories, physiotherapy and all para-medical allied services.

The hospital provides some specialized programs and services which include a home care program, adult cystic fibrosis clinic, anti-smoking program, out-patient rehabilitation program for respiratory insufficiency, Center for PHAGE typing and identification of atypical mycobacteria for the Province of Quebec, Revised Comprehensive Tuberculosis Program and special emphasis on the present challenge of lung cancer. It maintains an active research program and is fully approved by the Royal College of Physicians and Surgeons of Canada for residency training programs in both medicine and surgery. Residency rotating appointments number approximately 30 annually.

Hospitals Affiliated with McGill University

The following hospitals have been approved and have contracted with McGill University for participation in teaching and research in one or more departments and services:

Jewish General Hospital
Lakeshore General Hospital
Queen Elizabeth Hospital of Montreal
Queen Mary Veterans' Hospital
Reddy Memorial Hospital
St. Mary's Hospital
Shriners' Hospital for Crippled Children

2.3 LIBRARIES

Medical Library

Life Sciences Area Librarian - FRANCES K. GROEN
Assistant Area Librarian - DAVID S. CRAWFORD

The Medical Library is located on the second, third and fourth floors of the McIntyre Medical Sciences Building; the entrance is on the third floor.

The Library is open from mid-September to mid-June from 8:30 a.m. to midnight Monday to Thursday, from 8:30 a.m. to 10:00 p.m. on Friday, from 10:00 a.m. to 6:00 p.m. on Saturday and 1:00 p.m. to 5:00 p.m. on Sunday. During the summer months and at Christmas, the hours are restricted but notification of these changes is posted well in advance.

The Library is open to all who need to use its collections. Borrowing privileges are given to McGill faculty, staff and graduate students, all students in the Faculties of Medicine and Dentistry and to undergraduates whose course-work requires its use. Borrowing privileges are also extended to members of the health professions in the community.

Reference librarians are available to answer reference questions, to help with the use of the card catalogue, reference books and indexes and to assist in the compilation of bibliographies. Since 1973 the library has offered on-line bibliographic and reference services based on the United States National Library of Medicine's MEDLINE system and has recently expanded this to cover other relevant data bases in the life sciences offered by the Lockheed Company and the Canada Institute for Scientific and Technical Information.

One of the strengths of the Library is its journal collection. Of the more than 143,000 items held, over 100,000 are bound journal volumes and over 2,300 titles are currently received. The book collection is particularly outstanding in the area of ophthalmology, due in large measure to gifts from the late Dr. Casey A. Wood. There are also collections of books and journals in many departments of the Faculty.

The library is presently involved with the Faculty of Medicine in the development and utilization of computer-assisted instruction programs in pharmacology and in the provision of additional capability to make use of the many audio-visual presentations now available in the health sciences.

Osler Library of the History of Medicine

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library, entirely devoted to the history of medicine. Besides library offices and stack space, the Library consists of two reading rooms, the Wellcome Camera, accessible through the main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 30,000 volumes in the history of medicine and its sciences and a large quantity of manuscripts, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William

Osler. It is especially this portion which is rich in 15th, 16th, 17th and 18th century medical books. In addition, all books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, when a generous grant from the Wellcome Trust made active growth of the Library possible. The Library is constantly adding to the collection, especially current work in the history of medicine.

All books in the collection are available for use within the Library and the majority of them are available on loan. Undergraduates and all interested persons may use the Library. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana*, both are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

2.4 MEDICAL SOCIETIES

McGill Medical Students' Society

The Society is an association of all registered medical students. Acting through its elected council and various Faculty committees, the Society performs a number of functions:

- 1) To represent medical students' ideas, concerns and problems to the Faculty of Medicine, the government, and the public at large.
- 2) To promote interaction among the medical students of the province through the newly formed Fédération des Associations des Etudiants (es) en Médecine du Québec.
- 3) To attempt to advance new forms of learning to meet with the desires of the students.
- 4) To collaborate with the Students' Societies of Nursing and Physical & Occupational Therapy in running the "Annex", the new social centre.
- 5) To regulate all student sporting and social events within the Faculty.
- 6) To generally attempt to provide the resources and personnel to meet student needs and wishes as they arise.

Of the many things presently occurring under the auspices of the M.S.S., some of the more interesting are the McGill Medical Journal and the new Women in Medicine Group. The M.S.S. has members on many faculty committees, including the Curriculum Committee and the Admissions Committee. Details of all the activities are easily available from the M.S.S. Office and it is hoped that all students will participate in the Society's activities.

La SOCIÉTÉ est une association de tous les étudiants(es) inscrits en médecine. Représentée par son conseil élu et par les divers comités de la faculté, la SOCIÉTÉ accomplit les fonctions suivantes:

- 1) représente les idées des étudiants(es), leurs soucis et leurs problèmes à la faculté de médecine,

au gouvernement et au public en général,

- 2) facilite la communication des étudiants(es) en médecine de la province par le moyen de la Fédération des Associations des étudiants(es) en médecine du Québec qui a été nouvellement formée,
- 3) elle essaye de développer de nouveaux cours qui rencontreront les désirs des étudiants(es),
- 4) de collaborer avec les étudiants(es) de la Société des infirmières ainsi qu'avec la société d'ergothérapie et de réadaptation dans la direction de "l'Annexe", notre nouveau centre social,
- 5) s'occupe de régler toutes les réunions sportives ou sociales des étudiants(es) en médecine,
- 6) de façon générale, essayer de fournir toutes les ressources et le personnel afin de rencontrer les besoins et les désirs des étudiants(es) qui se font ressentir.

De toutes les choses qui se produisent sous les auspices de la Société des étudiants(es) en médecine, celles qui sont les plus intéressantes sont: le journal médical de McGill et la création d'un nouveau groupe "Les Femmes en Médecine". La Société des étudiants en médecine compte des membres sur plusieurs comités de la faculté y compris le "Curriculum Committee" et le "Admissions Committee". Les détails de toutes nos activités peuvent facilement être obtenus du bureau de la Société et nous souhaitons ardemment que tous les étudiants(es) participent à nos activités.

Osler Society

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical, social and literary significance.

The membership includes students from each class in the Faculty. Several professors have shown an active interest in the Society and have actively participated. Each year an Honorary President has been elected from this older group.

3 SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS AND LOAN FUNDS

For details of scholarships, bursaries and loan funds open to students in all faculties, see the *General Announcement*.

Within the Faculty of Medicine, students who

demonstrate outstanding performance are recognized through the awarding of prizes and medals. Any prizes and medals awarded to a student are noted on his transcript and become a permanent part of his record, as are University Scholarships which are also awarded for outstanding scholastic achievement.

In view of the high level of academic performance already demonstrated and achieved by students entering the Faculty of Medicine, all other awards available in the Faculty at the undergraduate level including the scholarships and bursaries listed below, are generally awarded by the Faculty on the basis of good standing and financial need. Students requiring financial aid should obtain information and complete the financial aid forms available from the Student Aid Office, 3465 Peel Street, Montreal, P.Q. H3A 1W7.

3.1 SCHOLARSHIPS

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS. - A fund of \$10,000, established in 1938 by an anonymous donation, in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P.(C), LL.D.(McGill), to commemorate her distinguished work in connection with the history of Canadian medicine, the Sir William Osler Pathological Collection and her outstanding research in congenital cardiac disease.

The revenue of this fund provides scholarships awarded by the University to undergraduates of either sex in the Faculty of Medicine, but women are given preference. Awards vary according to the needs of the winners. Further information may be obtained from the Dean's Office, Faculty of Medicine.

EZRA AND REGY ADES AWARD. - An annual award of \$200 established by Mr. Ezra Ades in the name of his wife and himself to be awarded to a student entering the penultimate year of Medicine. To be awarded by the donor to a deserving student, (in need), on the recommendation of the Faculty of Medicine Scholarships Committee.

J.H.B. ALLAN SCHOLARSHIP. - Available to undergraduate students in any year.

SIR EDWARD W. BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS. - A fund of \$100,000 was bequeathed by the late Dr. Henry Albert Beatty, the income from which provides two scholarships, not necessarily of equal value, awarded annually to students of either sex and of any nationality. Open to (i) students registered in the McGill Faculty of Medicine as candidates for the M.D., C.M. degree, (ii) graduates of an accredited Faculty of Medicine registered for postgraduate degrees, (iii) graduates of an accredited Faculty of Medicine registered for a postgraduate diploma in a

clinical specialty, (iv) graduates of an accredited Faculty of Medicine who are employed in a year of research as part of their residency training program. For students who hold or are working towards the McGill M.D., C.M. the award may be held at any approved institution in Canada or abroad. For other qualified students the award must be held at McGill. The holder is expected to devote his year of tenure either to research or to some form of special training excluding the normal training towards the M.D., C.M. and excluding any of the years of residency training required in the Diploma courses. Awarded by the Faculty of Medicine but not unless suitable candidates present themselves. Apply to the Dean's Office on the forms provided for this purpose on or before February 1 of the year in which the scholarship is to commence.

MAX BINZ SCHOLARSHIP. – From the bequest of the late Max Binz, \$1,000 is set aside annually for scholarships in the Faculty of Medicine.

JAMES H. CUMMINGS SCHOLARSHIPS. – Two or more entrance scholarships in the Faculty of Medicine bequeathed by the late James H. Cummings. Awarded at the discretion of the Faculty of Medicine.

DR. E.M. FISHER MEMORIAL SCHOLARSHIP. – Available to undergraduate students in any year.

WALTER J. HOARE MEMORIAL SCHOLARSHIP. – Endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in World War I. Open to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to a nominee of the Faculty of Medicine.

KEITH HUTCHISON MEMORIAL SCHOLARSHIPS. – Two or more scholarships, in memory of the late Dr. Keith Hutchison, established in the Faculty of Medicine. Tenable in any year of the course and awarded on the basis of distinguished academic standing and financial need. The holder in any one session may re-apply for the following year.

IVES SCHOLARSHIP. – Established in 1967 by a bequest of the late David Fraser Murray, M.D., C.M., 1924. Awarded on the basis of financial need with preference given to students from Nova Scotia, New Brunswick or Prince Edward Island.

CAMPBELL KEENAN MEMORIAL SCHOLARSHIP. – Established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Tenable in the second, third, or fourth year of the course in Medicine and awarded on the basis of distinguished academic standing and financial need to an applicant who intends eventually to enter surgical practice. The holder in any one session may re-apply for a subsequent session.

JAMES GRAHAME KER AND FREDERICK K. PETRIE MEMORIAL SCHOLARSHIP. – Awarded to a student from Eastern Ontario (Counties of Dundas, Stormont, Glengarry, Grenville, Carleton, Russell and Prescott) or from Montreal on the basis of distinguished academic standing and financial need. Tenable in the second year of the course in Medicine; however, the Faculty of Medicine may award this scholarship to the same student during the third and fourth years.

JAMES O. MEADOWS AND MARIA MEADOWS AWARDS. – A bequest of \$200,000 from the late Dame Maria Cowan Meadows to establish awards for undergraduates or graduates in the Faculty of Medicine for the purpose of supporting research. Preference will be given to candidates working in the field of Cancer Research, but worthy candidates working in other areas of medical or surgical research will also be considered. Apply to the Dean of the Faculty of Medicine.

ROBERT SHARWOOD MEMORIAL SCHOLARSHIP. – Tenable in any year of the undergraduate course in Medicine and awarded on the basis of distinguished academic standing and financial need. The holder in any one session may re-apply for the following year.

FREDERICK SMITH MEMORIAL SCHOLARSHIP. – This name is given to one University Scholarship tenable only in the Faculty of Medicine.

DR. JOSEPH TANZMAN AWARD. – A bequest in honour of Dr. Joseph Tanzman, M.D., C.M. 1927, for the establishment of an award in his name. The award is to be made to a medical student in any given year from the Province of New Brunswick as a preference. If in any year no such candidate is available, the award may be made to any deserving student in the Faculty of Science. This award will be made by the Scholarships Committee of the Faculty of Medicine or the Faculty of Science as the case may be.

UNIVERSITY SCHOLARSHIPS. – See the *General Announcement*.

3.2 BURSARIES

BELLAM MEMORIAL BURSARIES. – A bequest of \$20,000 from the estate of the late C.F. Bellam. Awarded on the basis of financial need. Candidates must be from Stanstead County, Quebec.

DR. BEN BENJAMIN MEMORIAL BURSARY. – Established by his sisters in memory of the late Ben Benjamin, B.A., M.D., C.M., lecturer in the Department of Pediatrics. Awarded on high academic standing and financial need.

JOSEPH ISRAEL BENNETT BURSARY. – A bequest by the late Joseph Israel Bennett, the interest on which is to provide a bursary to be awarded annually to a deserving student.

FACULTY OF MEDICINE

ELFRIC DREW BROWN BURSARY. – Established in 1973 by a bequest from the late Elfric D. Brown, M.D., C.M. The annual income is to provide bursaries to help deserving students in the Faculty of Medicine.

BEVERLEY COONER BURSARY. – Established by the family and friends of the late Beverley Cooner to assist a deserving student. Awarded with the approval of the National Council of Jewish Women on the basis of financial need and academic standing.

CO-OPERATIVE MEDICAL SERVICES FEDERATION OF ONTARIO BURSARY. – To be awarded on the basis of academic standing and financial need, to a student who has completed the pre-medical years and is entering the first medical year in university, and who has been a member or whose parents have been members of a medical co-operative for at least two years. In the event no first year student qualifies, a second, third, or fourth year student may be chosen.

ANNIE DIAMOND BURSARIES. – Established in 1969 for medical students with financial need. The awards will vary according to the needs of the recipients.

SAMUEL EIDLOW MEMORIAL BURSARY FUND. – Established for worthy medical undergraduate students with financial need.

CHANCELLOR FERRIER MEMORIAL BURSARY. – Established by Mrs. Herbert V. Lacey in memory of her great-grandfather, Senator James Ferrier, Chancellor of McGill from 1884 to 1889. Awarded on the basis of academic standing and financial need, with preference to students from the state of Wyoming.

KINCH MEMORIAL BURSARY. – Established by Miss Dia Joyce in memory of Mr. and Mrs. C.H. Kinch to assist medical undergraduate students.

ROCHE BURSARY. – A bursary donated annually by Hoffman-La Roche Limited. Awarded to a student (or students) in the undergraduate medical course who require financial assistance to complete their education.

SAMUEL ROSENFELD BURSARY. – Established by Mrs. Ida Rosenfeld Letovsky in memory of her late husband, Mr. Samuel Rosenfeld, for worthy medical undergraduate students with financial need.

REUBEN ROSS AWARD. – A bequest from the late Reuben Ross, the annual income to provide an annual award available to students in the Faculty of Medicine on the basis of financial need.

SOLOMON DAVID SACKS BURSARY. – Established in 1973 by Mr. and Mrs. Issie Sacks

in memory of their son, to assist a deserving medical student. Awarded on the basis of financial need.

ROSE SCHWARZ – HELEN MARCUS BURSARY. – Established by the family and friends of the late Rose Schwarz and the late Helen Marcus to assist a needy and deserving student who intends to devote summer employment to Cancer Research. Awarded with the approval of the National Council of Jewish Women.

BRUCE SMITH BURSARY FUND. – A bequest by the late Dr. Bruce Stewart Smith "to assist poor but worthy medical students to complete medical training at McGill University".

DR. MILTON C. AND NINA E. WILSON AWARD. – Established in 1970 by a bequest from the late Dr. Milton C. Wilson, the annual income to be available for the support of undergraduate or postgraduate students in the Faculty of Medicine who are in need of financial assistance.

3.3 PRIZES

MR. AND MRS. J.A. BESNER PRIZE. – Approximately \$250, awarded to the student obtaining the highest aggregate standing in Phase II of the medical undergraduate course.

H.S. BIRKETT MEMORIAL PRIZE IN OTOLARYNGOLOGY. – \$100, established by Miss Winifred Birkett in memory of her father, the late Dr. H.S. Birkett, former Professor of Otolaryngology, for a student who has shown outstanding performance in Otolaryngology. In addition, a specially bound volume containing an address by Dr. Birkett on the history of medicine in the Province of Quebec and a photograph and brief biographical sketch of Dr. Birkett will be presented to the winner.

JAMES Q. BLISS ANNUAL BOOK AWARD. – Awarded to the student who obtains the highest standing in Physiology in the First Year Medical Class.

BRISTOL LABORATORIES OF CANADA PRIZE. – An annual prize of \$125 awarded to a student in Phase II.

JOSEPH MORLEY DRAKE PRIZE. – (Founded by the late Joseph Morley Drake, M.D.) – A prize of \$125 awarded to the student considered to be the most outstanding in Pathology.

ROBERT FORSYTH PRIZE. – \$125, bequeathed by the late Miss Jeanie Forsyth, awarded each year to a student who, upon graduation, has shown particular ability in all branches of Surgery.

CHARLES E. FROST MEDICAL PRIZE AND BRONZE MEDAL. – An annual prize valued at \$500

to be awarded to a medical student who has shown the most promise in the field of Pharmacology. A bronze medal will also be presented to the winner.

HARRY S. GROSS MEMORIAL PRIZE. – \$75, bequeathed by the late Mrs. Esther B. Gross in memory of her late husband, Harry S. Gross, D.D.S. 1913, M.D., C.M. 1921. Awarded to the student with the highest standing in Surgery in Phase II of the medical course.

JOSEPH HILS PRIZE. – (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.). A prize of \$75 awarded to the student who obtains the highest standing in Pharmacology in Phase IB.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE. – \$50 founded by Mrs. Campbell Howard, in memory of the late Dr. Campbell P. Howard, Professor of Medicine at McGill. Awarded to the student who has shown the most consistent excellence in his written case reports in Phase II Clinical Medicine.

F. SLATER JACKSON PRIZE. – Value \$75, founded by Mr. and Mrs. H.F. Jackson in memory of their son, the late F. Slater Jackson, M.D. Awarded to the student with the highest standing in Histology.

CAMPBELL KEENAN MEMORIAL PRIZE IN CLINICAL SURGERY. – \$100, established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. Awarded to the student in the graduating class who has shown the highest proficiency in Clinical Surgery. The winner of the Robert Forsyth Prize in Surgery is ineligible.

DR. W.B. LEWIS PRIZE. – An essay prize open to students in all faculties. For further information contact the Scholarships Office in the Registrar's Office.

CHESTER MACNAGHTEN PRIZES. – An essay prize open to students in all faculties. For further information contact the Scholarships Office in the Registrar's Office.

MONTREAL CHILDREN'S HOSPITAL CUSHING MEMORIAL PRIZE. – \$100 awarded to the student with the highest standing in Pediatrics.

PSYCHIATRY PRIZE. – Value \$100, awarded to the medical student who, in the opinion of the Department of Psychiatry, shows the greatest promise in Psychiatry.

SAMUEL ROSENFELD PRIZE. – \$50, awarded to the student with the highest standing in Medical Microbiology of the medical course.

MONA BRONFMAN SHECKMAN PRIZE. – \$125, awarded for the highest academic standing in Psychiatry.

ALEXANDER D. STEWART PRIZE. – \$150, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his/her profession.

J. FRANCIS WILLIAMS PRIZE IN MEDICINE AND CLINICAL MEDICINE. – \$500, founded by the late J. Francis Williams, M.D., awarded to the student obtaining the highest standing in Medicine in Phase III of the medical curriculum.

3.4 MEDALS

WALTER CHIPMAN GOLD MEDAL. – Founded by the late Max Strean in honour of Dr. W.W. Chipman. Awarded to the student whose performance in Obstetrics and Gynecology throughout the medical curriculum is considered to be outstanding.

HOLMES GOLD MEDAL. – Founded by the Medical Faculty in 1865, in memory of the late Andrew Holmes, M.D., LL.D., sometime Dean of the Faculty. Awarded to the student graduating with the highest aggregate standing in the entire medical curriculum.

SUTHERLAND GOLD MEDAL. – Founded in 1878 by the late Mrs. Sutherland in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty. Awarded to a student with a good overall standing in Phase I, and whose performance in biochemistry is considered to be outstanding.

WOOD GOLD MEDAL. – Founded by Casey A. Wood, M.D., LL.D. Awarded to a student for the most outstanding clinical performance in Phase III. The winner of the Holmes Medal is not eligible.

3.5 LOAN FUNDS

MAUDE ABBOTT MEMORIAL LOAN FUND. – Established by the Federation of Medical Women of Canada and available to any woman medical student, first year intern or graduate student. Apply to the Secretariat, Federation of Medical Women of Canada, Box 8244, Ottawa, Ontario K1G 3H7.

BORIGHT LOAN FUND. – Established in 1963 by a bequest from the late George H. Boright for loans to deserving medical students.*

BOSWELL JAMES LOAN FUND. – Established in 1943 by Dr. A. Boswell James and available to undergraduates and graduates.*

*Apply to Student Aid Office.

FACULTY OF MEDICINE

DAVID M. CALDWELL STUDENT LOAN FUND. – Established in 1973 by a bequest from the late David M. Caldwell M.D. 1919, to assist students in the Faculty of Medicine, with preference given to American students.*

ALEC AND SYLVIA DOLLIN LOAN FUND. – Established in 1965 by Mr. Alec Dollin for loans for medical students.*

KELLOGG LOAN FUND. – Given by the Kellogg Foundation to provide loans up to a maximum of tuition fees in any year to students in good standing who require such assistance. The regulations and application forms are the same as for other loan funds controlled by the University.*

LACEY LOAN FUND. – Established in 1962 by a donation from Mrs. Herbert Van Devanter Lacey, Cheyenne, Wyoming, primarily for aid to medical students from the state of Wyoming but may be extended to others in accordance with the following priorities: Medical students from the state of Wyoming; Dental students from the state of Wyoming; Medical students from other states of the U.S.A.; Medical students from other countries. Loans not to exceed \$700 each per year.*

GERTRUDE MUDGE MEMORIAL STUDENT AID FUND. – Established in 1958 by donations from students, graduates, and staff in memory of the late Gertrude Mudge, for many years Assistant Secretary of the Faculty of Medicine. Loans shall not exceed the tuition fees for the year.*

WESTON FAY VOLBERG JR. MEMORIAL LOAN FUND. – Established in 1956 by classmates of the late Weston Fay Volberg, Jr., M.D., C.M. 1953, and available to medical students.*

*Apply to Student Aid Office.

4 CURRICULA, COURSES OF STUDY AND PROGRAMS

4.1 PROGRAMS IN MEDICINE

Application for Admission

Admissions Telephone Number: (514) 392-4232

Application for admission to the Faculty of Medicine must be made on the special application forms available only from the Office of the Associate Dean (Admissions), Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. All requests for application materials will be assigned to a mailing list. The materials will be forwarded during the

month of September. Applications for the first-year class of September 1978 will be available after September 1, 1977. Applicants to the Four Year and Advanced Standing Programs will be asked to complete a Stage I application, which is reviewed by members of the Admissions Committee. Selected applicants will be invited to complete a Stage II application. There is no fee for the Stage I application. In order to speed up our responses to your Stage I application, we enclose self-adhesive address labels. Please print your name and address on them and return them to us with your Stage I application. **Only official transcripts will be accepted by this office.** The usual time interval for a response to a Stage I application is between six and eight weeks. The Stage II application must be accompanied by a non-returnable fee of fifteen dollars (\$15.00 in Canadian funds) in the form of a cheque or money order payable to McGill University. Applicants currently registered at McGill University are not required to pay the \$15.00 fee. The deadline for the Stage I application is January 15, 1978 and for the Stage II application, March 1, 1978.

Although the great majority of the entering class is below the age of 27, older applicants will be considered.

During the past few years, the Admissions Committee has selected an increasing number of Quebec students. Twenty percent of the entering class are accepted from applicants outside the Province of Quebec. There is a total of 160 students in the first-year class.

Accepted students for the 1976 entering class had the following credentials: mean G.P.A. (Based on a 4 point scale) 3.58; M.C.A.T. percentile scores, VA. 68, QA. 76, GI. 63, SCI.76.

REQUIREMENTS FOR ENTRANCE

Four-Year Program in Medicine

Applicants must be proceeding toward the satisfactory completion of a course of study leading to the Bachelor Degree at a recognized college or university. All successful candidates must be in receipt of the Bachelor's Degree prior to registration in the first-year of the medical curriculum.

This Faculty does not admit part-time students.

Scientific Requirements:

Chemistry (General), one full course with laboratory work.

Chemistry (Organic), one full course with laboratory work.

Physics, one full course with laboratory work.

Biology, one full course including studies of biology at the cell and molecular level.

In addition, Physiology (human and/or mammalian), one full course with laboratory work is recommended.

Cultural Requirements: In addition to the scientific requirements, applicants are encouraged to have an adequate preparation in English literature and composition, mathematics and a working knowledge of the French language.

In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his premedical program as a whole and in accordance with a definite educational objective. Emphasis should be placed on the broad educational value and the intellectual training afforded, rather than on the factual content of such premedical curricula. The student is therefore advised to select a major field which appeals to him; this major field may be selected from the natural or social sciences, or the humanities. Certain subjects, though not essential, have been found valuable in medical study and may be included as electives if the curriculum in the major field permits; psychology, sociology, genetics, anthropology, mathematics, languages.

Admission Test Requirements: All applicants are required to take the New Medical College Admission Test. For those applying to the four-year program the test must be taken prior to the close of Stage I applications on January 15, 1978. This test is conducted by the American College Testing Program (P.O. Box 414, Iowa City, Iowa 52240) at various centres in the spring and fall of each year. **CANDIDATES FOR THE FALL 1978 ENTERING CLASS MUST PRESENT SCORES FROM THE NEW 1977 MCAT.** The 1977 MCAT fall test date is October 1st. The fall postmark registration deadlines are September 2nd for those candidates testing in the United States, Canada, and Puerto Rico; and August 29th for those testing in foreign countries. Registration materials will be available at our offices about February 1, 1977. Candidates are warned not to mail too close to the postmark deadline since past experience has shown that packets are sometimes postmarked a day or two after they have been put in a mail box. No late applications will be accepted.

It should be noted that the New MCAT includes tests to measure:

1. Science Knowledge (Biology, Chemistry and Physics)
2. Science Problems (Biology, Chemistry and Physics)
3. Skills Analysis (Reading)
4. Skills Analysis (Quantitative)

It is realized that English is not the first language of many applicants to this Faculty and this fact will be taken into account in assessing the results of this test.

Five-Year Program in Medicine

Canadian citizens and landed immigrants resident in the Province of Quebec, completing the two-year program in the Quebec Colleges of General and Professional Education (CEGEP), are eligible to apply for the five-year program providing they have taken the following science courses: one full year course in General Chemistry with laboratory work, one half year course in Organic Chemistry with laboratory work, one full year course in Physics with laboratory work and one full year course in General Biology. We also recommend a full year course in Mathematics. Persons having attended other technical schools or university programs before attending CEGEP are not eligible to apply for the five-year program, nor are persons attending any collegial or premedical program that is not a Quebec CEGEP. Students in the five-year program will be registered in the Faculty of Science for the first year (Med-P year). Providing that a satisfactory academic standing has been maintained, the student proceeds into the four-year medical curriculum. Such applicants may complete the scientific entrance requirements for the four-year program during the Med-P year.

Application Procedures for the Five-Year Program: Application for admission to the five year medical program must be made on the application forms available only from the Office of the Associate Dean (Admissions), Faculty of Medicine, Room 609, McIntyre Medical Sciences Building. Applications for the five-year program for September 1978 will be available after October 1, 1977. **Only official transcripts will be accepted by this office.**

Admission Test Requirements: Applicants to the five-year medical program must write the New Medical College Admissions Test in the spring of their second collegial year. Registration packets will be available from the medical admissions office around February 1, 1978. You must contact this office no later than February 1, 1978 regarding the deadlines for this test.

It should be noted that the New MCAT includes tests to measure:

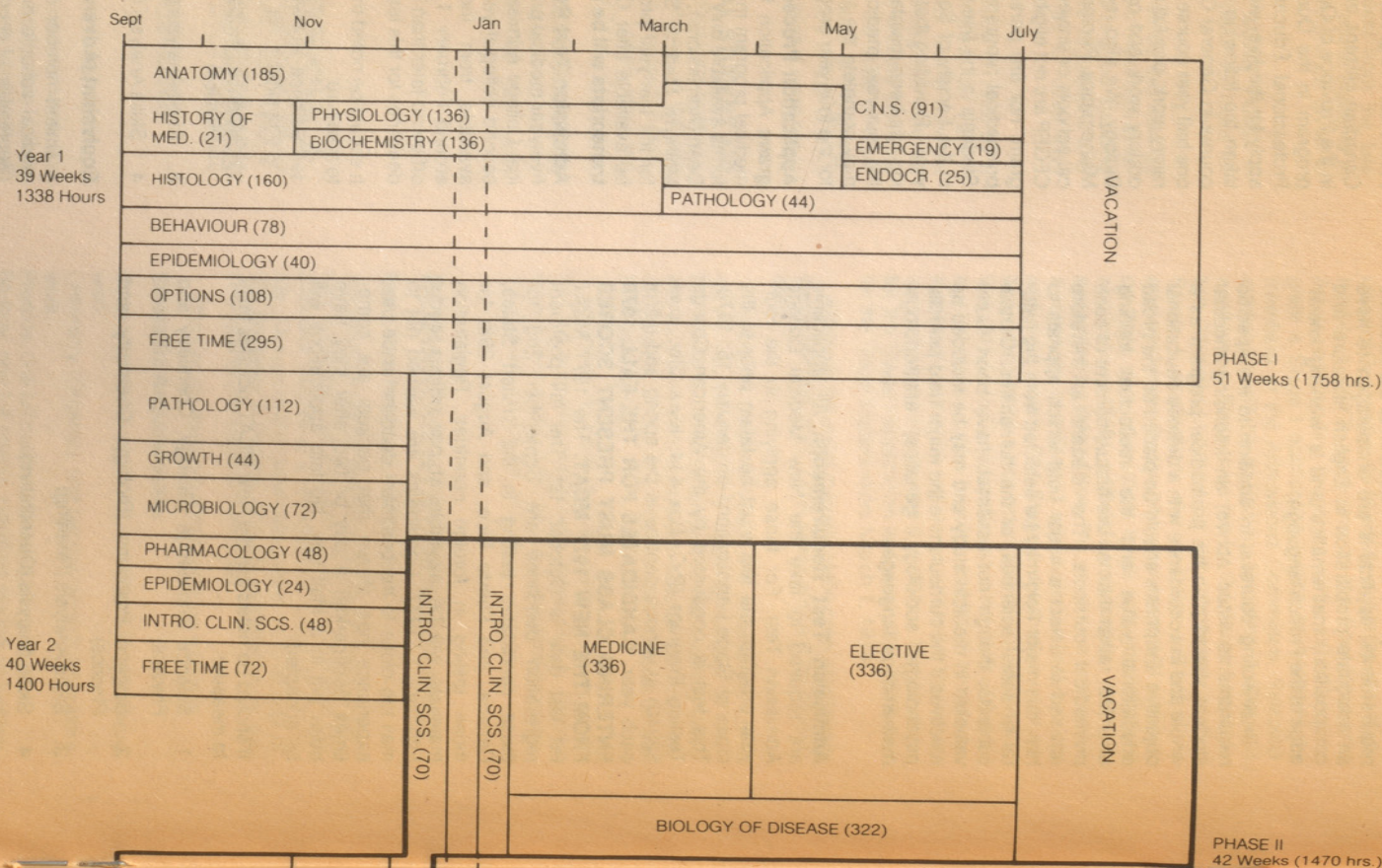
1. Science Knowledge (Biology, Chemistry and Physics)
2. Science Problems (Biology, Chemistry and Physics)
3. Skills Analysis (Reading)
4. Skills Analysis (Quantitative)

Equivalent (Advanced) Standing

A limited number of transfer students from other medical schools may be accepted into Phase IB (September of second year), Phase II (mid-December of second year) or into an offset Phase II program which will start at the beginning of third year as outlined below. No transfer students will be accepted into Phase III or into the fourth year.

McGILL FACULTY OF MEDICINE CURRICULUM

(numbers represent time in hours)*



Year 3
38 Weeks
1450 Hours

SURGERY (224)	OBS/GYN (112)
BIOLOGY OF DISEASE (cont'd.)	

PSYCHIATRY CLERK (320)	PEDIATRIC CLERK (320)	CLERK OPTION (320)	VACATION
------------------------------	-----------------------------	--------------------------	----------

PHASE III
68 Weeks (2660 hrs.)

Year 4
44 Weeks
1700 Hours

CLERK OPTION (320)	ELECTIVE (320)	CLERK OPTION (320)	BASIC SCIENCE OPTIONS (420)	ELECTIVE (320)
--------------------------	-------------------	--------------------------	-----------------------------------	-------------------

* Hours calculated on basis of 35 hours/week in PHASES I & II and in Basic Science options of Phase III; 40 hours/week in PHASE III clerkships and electives. Hours and weeks do not include vacations and holidays.

(revised Aug. 1, 1974)

TOTAL
161 Weeks
5888 hrs.

FACULTY OF MEDICINE

The offset Phase II and Phase III Programs are designed for students who have completed two years of Basic Science in a traditional medical curriculum and who wish to transfer to McGill for their clinical years. The programs offered are identical to the regular Phase II and Phase III programs except that the curriculum is offset by 24 weeks compared to the regular program. Thus, students in Offset Phases II and III take all of Phase II in third year, the regular fourth year rotations (four 8-week clinical or elective rotations and the 12 weeks Basic Science Options), and then complete the remaining 24 weeks of clinical or elective rotations over the ensuing summer and autumn.

Application Procedures for Advanced Standing:

A student of another medical school who wishes to apply for advanced standing is required to submit an official statement of his preliminary education, the medical program he has followed and the standing he has obtained. This should be accompanied by a calendar of the medical school in which he has studied, giving a full statement of the course of study and a Dean's letter of recommendation. In addition, students applying for transfer into the regular or offset Phase II programs are required to take Part I of the National Board of Medical Examiners examinations, and an official transcript of the results must be forwarded to the Associate Dean of Admissions.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school and the student may be determined to pass such examinations, individual or comprehensive, as may be determined by this Faculty.

Applicant Review and Notification Procedure

After a review of the submitted application material, the Admissions Committee decides which applicants will be invited to come to the Faculty of Medicine Offices for interviews with Committee members. The Admissions Committee judges applicants on the basis of academic achievement (entire academic record and MCAT) as well as personal qualities and attitudes.

All applicants will be notified by letter of the decision of the Admissions Committee. Inasmuch as admission is offered a considerable period in advance of matriculation, it is provisional upon the successful completion of the remaining requirements for the various programs.

Successful applicants are given two weeks in which to reply to the letter and to state whether the offer of a place in the class will be accepted. NO DEPOSIT FEE IS REQUIRED.

4.2 REGISTRATION

Students in the Faculty of Medicine will register on Thursday, September 1, 1977. There will be a late registration fee of \$25.00 for those who register after this date. The fee will not be refunded except by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

4.3 FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are refundable under the conditions described in the *General Announcement*.

University Fees

1. Four-year program in Medicine (all years): \$719.00 plus Student Services fee of \$70.00 and Students' Societies fees of \$25.00.
2. Repeating Students
Students repeating a year pay full fees.
3. *Ad eundem* Fee
Students entering any year above the first pay a special *ad eundem* fee of \$10.00
Graduation Fee - \$15.00.

General Regulations

1. Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Department.

The first instalment is due within 10 days after registration, the second instalment before January 15, 1978.

A late payment fee of \$10.00 is charged for payment during the first 30 days after registration. A late payment of \$25.00 is charged thereafter.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Department before August 23, 1977, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all returning students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan and who require this for payment of the first instalment of fees must obtain a *Permit to Delay Payment of Fees* from the Student Aid Office, McGill University.

The second instalment is due January 15, 1978. A late payment fee as mentioned above is charged for payment after the specified dates.

- Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Registrar's Office a list of the registered students who have not paid their fees. Until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant, Reports of Standing, transcripts of record and diplomas will be withheld.

Graduation Fee

Application by students who expect to graduate at the Spring Convocation must be filed by April 1st of each year and by those who expect to graduate at the Fall Convocation by October 1st of each year. An application form will be mailed to each eligible student and must be returned to the Registrar's Office together with the graduation fee of \$15.00 by the appropriate date listed above. This fee will cover all expenses in connection with graduation including academic dress. It is the student's responsibility to ensure that his or her name is included in the graduation list.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the *General Announcement*

Microscopes

The Faculty provides all students in first and second year with a first quality binocular microscope. In this way, all students have the same experience in microscopy as it applies to histology, microbiology, pathology and microhistology. A small fee is charged for the rental of microscopes to cover general repairs and maintenance costs.

Board and Residence

For details of board and residence and an estimate of expenses, see the *General Announcement*.

Health Service and Student Services

For details of the Health Service, medical examinations and other student services see the *General Announcement*.

4.4 COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including:

four years of medical study in the University leading to the degree of M.D., C.M.; and one year on internship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for internship applications, the Faculty of Medicine assumes no responsibility to provide an internship for any student.

Educational Goals of McGill Faculty of Medicine Curriculum

After four years of deliberations by the Permanent Advisory Committee on Undergraduate Medical Education (PACUME) and, subsequently, by the Faculty Curriculum Committee (F.C.C.), a new medical curriculum was introduced beginning with the entering class of September, 1973. The details of this curriculum are outlined below. Some of the major goals of the new curriculum are:

- TO INCREASE FLEXIBILITY.** Student interests vary, the needs of society vary and no man can be master of all fields. To this end, streaming has been introduced in the last year and a half (PHASE III) of the curriculum, the amount of Scheduled Free Time has been increased in the first and second years and Optional courses have been added to the first year program. In addition, Elective programs continue to make up a significant portion of the curriculum.
- TO ENABLE THE STUDENT TO BETTER APPRECIATE THE RELEVANCE OF THE BASIC SCIENCES TO CLINICAL MEDICINE.** The three curricular revisions aimed at achieving this goal are:
 - A 12-week block of basic science teaching in Phase III.
 - The concurrent teaching of Biology of Disease with clinical disciplines in Phase II.
 - Presentation of the introduction to Clinical Sciences Course early in second year.
- TO IMPROVE THE INTEGRATION AND COORDINATION OF COURSES.** Seven core courses and many option courses are fully integrated. In addition, the timing of many departmental courses has been re-arranged so that better coordination can be achieved.
- TO "HUMANIZE" AN "OVER-PROFESSIONALIZED" CURRICULUM.** This is the most difficult to define and resolve; curricular revision alone has strict limitations in this area. What has been done is to continue the emphasis on the first year Behaviour course, introduce a number of first year options in social sciences and make Family Practice one of the major streams in Phase III. Further, in first year, faculty curriculum counsellors act as small group discussion leaders and tutors, introducing students to clinical experiences in their social, psychological and "human" dimensions. The groups are "labs" for the Behaviour course.

FACULTY OF MEDICINE

Descriptive Outline of McGill Faculty of Medicine Curriculum

The content of the McGill curriculum may be considered under four major headings – CORE, OPTIONS, ELECTIVES and SCHEDULED FREE TIME.

CORE is that portion of the curriculum compulsory for all students. Core *alone* is quite inadequate to prepare a student for medical practice, and it must be supplemented by options and electives. Core includes basic biological sciences, behavioural and social sciences and clinical disciplines. It is taught in all four years of the curriculum.

OPTIONS may be thought of as a defined list of courses, determined by Faculty, from which students must select a specified number according to the rules and regulations of Faculty. Options differ from electives in several respects, the two major differences being that options are courses specifically proposed and offered through Faculty for specific educational purposes and the number of options offered is limited.

At McGill there are two types of options. Those offered in first year are unrelated to the multiple stream or track options of Phase III and might therefore be labelled as "undifferentiated options". The optional courses offered in the clerkship period are tied to the multiple streams or tracks. Four major clinical stream options and two "branches" of these major streams are offered in Phase III: Internal Medicine – General Stream or Pediatric Branch; Surgery – General Stream or Obstetrical-Gynecological Branch; Psychiatry; and Family Medicine. There are 24 weeks of clinical stream options. In addition to the clinical stream options of Phase III, there is a 12 week block of Basic Science options. During this time a series of courses are offered in various basic biological and social sciences. Although some courses are compulsory, students will in general have considerable choice in this section.

ELECTIVES differ from options in the following ways: the students, not the Faculty, are primarily responsible for selecting the courses; the choice of electives is very large and may be taken in non-university settings. Indeed the only major restriction is that the elective must be in some way related to medicine. Electives are seen as an opportunity for a student to either pursue his major interest in depth or for a student to taste a variety of experiences which might help him decide on his ultimate career. Electives are taken during Phases II and III.

SCHEDULED FREE TIME is synonymous with "Faculty scheduled student learning time". It is a vital part of the timetable as "learning time" is an essential complement to "teaching time". There is relatively little scheduled free time at McGill; most of it is formed in the first year and a half (Phase I).

In summary, the McGill curriculum is broken down as follows:

CORE	86 weeks	53.4%
OPTIONS	39 weeks	24.3%
ELECTIVES	26 weeks	16.1%
SCHEDULED FREE TIME	10 weeks	6.2%
TOTAL	161 weeks	100.0%

PHASES

The implementation of this Core-Options-Electives curriculum is done by dividing the four academic years into three phases as follows:

PHASE I	Beginning of Year I to end of November of Year II (51 weeks)
PHASE II	Beginning of December of Year II to end of December of Year III (42 weeks)
PHASE III	Beginning of January of Year III to end of May of Year IV (68 weeks)

PHASE I

This phase, comprising all of first year and the first 12 weeks of second year, is devoted largely to instruction in the Basic Biological Sciences. Normal Biology is the main theme of the first year (Anatomy and Embryology, Histology, Physiology, Biochemistry, Central Nervous System and Endocrinology) while Abnormal Biology is introduced in the first 12 weeks of second year (Pathology, Microbiology and Pharmacology). A course in Growth and Development is also given during this period. Behavioural Science and Epidemiology are the core non-biological sciences given in this phase. In addition, short courses in Emergency Medicine and the History of Medicine are offered in the first year. The introduction to clinical sciences begins in September of second year with about one half day per week during the first 12 weeks of the year.

As indicated in the timetable, first year students are required to take 108 hours of optional courses. The optional courses in first year are variable and will change from year to year. Students may take credit courses from any of the faculties at McGill University. As well, first year options may also be chosen from courses offered for credit by any of the universities in Montreal. Every student must take six option credits in his first year.

PHASE II

This phase is taken up with three main areas:

1. The bulk of the Introduction to Clinical Sciences Course.
2. The pre-clerkship clinical rotations in Medicine (12 weeks), Surgery (8 weeks), Obstetrics and Gynecology (4 weeks).
3. The Biology of Disease Course which is predominantly a course in Pathophysiology given

concurrently (two half days per week) with the clinical rotations.

In addition, Phase II contains a 12-week elective block.

PHASE III

Phase III which begins in January of third year and includes all of fourth year is predominantly the clerkship phase. The 68 weeks of this phase are divided as follows:

Clerkship	40 weeks
Electives	16 weeks
Basic Science Options	12 weeks

Streaming begins in Phase III and there are four major streams or tracks as outlined above under options. It should be noted that the 12-week Basic Science Block in this Phase is part of the Optional portion of the curriculum. On the other hand the 16 weeks reserved for the Pediatric and Psychiatry clerkships in this phase are compulsory for all students and constitute part of Core.

It should be noted that the purpose of streaming during the clerkship period is not to introduce early specialization. Rather, it is geared to offering the student a well-planned program centered around an area of special interest which may or may not be his eventual career choice. The clinical content of each of the streams is considered to be broad enough to prepare the student for any internship or residency program.

The philosophy underlying the clinical clerkship is that on each clinical service, the clinical clerk will occupy a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care. The clerkship is designed to permit the student to consolidate the clinical skills he has acquired in Phases I and II and to begin to acquire "professional maturity".

The clinical clerkship is structured to satisfy the demands of most licensing bodies. Consequently, students may in most instances, enter directly into straight internships as the first phase of their specialty training.

Each clinical clerk is entitled to four weeks vacation which must be taken at the time allocated in the timetable.

4.5 CURRICULUM REVIEW

The Faculty realizes that there is a need for constant review of the medical curriculum necessitated by:

- Current rapid advances in scientific knowledge.
- Probable changes in the role of the medical school in relation to the community with concomitant changes in the delivery of health care.
- Continued application of principles developed in the field of general educational science to medical education.

Therefore a permanent student-faculty Curriculum Committee operates within the Faculty of Medicine. This Committee is charged with the task of studying the necessity for further curriculum revision and planning the implementation of any modifications thought desirable.

4.6 LEAVES OF ABSENCE

This Faculty has a flexible policy for leaves of absence of up to one year in duration which may be granted at the discretion of the Dean. Such leaves must begin and end at times corresponding to the beginning and ending of rotations and, except under unusual circumstances, at least three months notice is required prior to the commencement of a leave of absence.

Specific regulations concerning leaves of absence are as follows:

During Phase I, leaves of absence of one year duration only can be taken. These may be taken between first and second year or at the completion of Phase I (prior to the four week clinical rotation in Introduction to Clinical Sciences).

During Phases II and III leaves of up to one year in duration may be taken at the beginning of any rotation with the following provisos:

- Leaves of absence will be granted in only exceptional circumstances prior to the first or second 12 week rotation of Phase II;
- A leave of absence spanning the Basic Science Option block of fourth year must be planned in such a way that the student will be able to make up that block in the following year.

In general, the time used up for a leave of absence will be made up by offsetting the student's curriculum by an equivalent time period. In some circumstances, permission may be given to make up a short term leave of absence during an elective or holiday period.

4.7 EVALUATION SYSTEM

The courses taken within the Faculty of Medicine are divided into two groups, namely major courses and minor courses. Student evaluation, either by examination and/or by other means (term papers, tutorial assessments of performance in small groups or on clinical services, etc.) is the general rule for all courses whether major or minor.

Major courses are: Anatomy (Embryology), Histology, Physiology, Biochemistry, Central Nervous System, Pathology, Medical Microbiology, Pharmacology, Epidemiology, Biology of Disease, Phase II Medicine, Phase II Surgery, Phase II Obstetrics and Gynecology, Phase III Psychiatry, Phase III Pediatrics, all Phase III clerk option rotations and fourth year basic science options.

Minor courses are: History of Medicine, Emergency Medicine, Endocrinology, Growth and Development, Introduction to Clinical Sciences, First Year Options, Behaviour and all electives.

It should be noted that for the purposes of evaluation the six required first year option credits are combined (by averaging grades or weighing individual assessments) to represent one final composite grade.

For the purposes of evaluation the four-year curriculum is broken down into the following sessions, the end of each representing the time at which regular Promotions Committee meetings will be held to determine whether or not a student may proceed to the next session.

Evaluation Session I

The beginning of Year I until the end of Year I

Evaluation Session II

The beginning of Year II until the end of Phase I

Evaluation Session III

The beginning of Phase II until the end of Phase II

Evaluation Session IV

The beginning of Phase III until the end of Phase III

EVALUATION PROCEDURES FOR PHASE I. Except under unusual circumstances, a student is not allowed supplemental (or remedial) evaluations in three or more major courses in any one evaluation session. The student will be required to repeat the session or retire as decided by the Promotions Committee, from whose decision there shall be no appeal.

Except under unusual circumstances, a student is not allowed supplemental (or remedial) evaluations in two major and one minor course in any one evaluation session. The student will be required to repeat the session or retire as decided by the Promotions Committee, but he or she may appear before the Promotions Committee to plead his or her case if it is decided he or she should retire.

Unless the Promotions Committee finds special mitigating circumstances, a failure in the supplemental (or remedial) evaluation of a major course will require the student to repeat the Evaluation Session, and no student may repeat such an Evaluation Session more than once. Any student who fails in the supplemental (or remedial) evaluation of two major courses in any one Evaluation Session shall be required to retire without the privilege of further supplemental (or remedial) evaluations unless the Promotions Committee finds special mitigating circumstances.

Except under unusual circumstances, a student who fails in the supplemental (or remedial) evaluations of three or more minor courses in any one Evaluation Session, must repeat that Evaluation Session or may be asked to retire, as may be

decided by the Promotions Committee, but he or she may appear before the Promotions Committee to plead his or her case if it is decided that he or she should retire.

A student who fails in the supplemental (or remedial) evaluation of not more than two minor courses in one Evaluation Session may proceed with other subjects in the subsequent Evaluation Session, carrying such subjects as conditions. However, he or she may not be evaluated in any subsequent major course until the conditions have been removed, nor may he or she carry more than two conditions at any time. Should a student fail to remove his or her conditions prior to the time for evaluation in a subsequent major course, he or she will be required to revert to the previous Evaluation Session unless the Promotions Committee finds special mitigating circumstances.

EVALUATION PROCEDURES FOR PHASE II. Except under unusual circumstances, a student in Phase II will be permitted supplemental (or remedial) rotations and evaluations in no more than two subjects. When necessary, time for these remedial rotations will be obtained by offsetting the remainder of the student's curriculum by an appropriate number of weeks. If the student should fail one or both of these supplemental (or remedial) evaluations, he or she will, except under unusual circumstances, be required to repeat the Phase or withdraw from Medicine as decided by the Promotions Committee, from whose decision there shall be no appeal.

EVALUATION PROCEDURES FOR PHASE III. It should be noted that for purposes of evaluation credits from Basic Science Option courses are combined (by averaging grades or weighing individual assessments to represent one final composite grade.)

Except under unusual circumstances, a student in Phase III will be permitted supplemental (or remedial) rotations and evaluations in no more than three subjects. Where necessary, time for remedial rotations will be obtained by offsetting the remainder of the student's curriculum by an appropriate number of weeks. If a student should fail the supplemental (or remedial) evaluations of any clinical subject, he or she will generally be required to repeat the major clinical courses offered in Phase III (Pediatrics, Psychiatry and three Clerk Option rotations) or withdraw from Medicine as decided by the Promotions Committee, from whose decision there shall be no appeal.

Except under unusual circumstances, a student in Phase III who fails in the supplemental (or remedial) evaluations of the Basic Science Options, will be required to repeat fourth year (taking whatever courses are deemed most appropriate for him or her by the Promotions Committee) or withdraw from Medicine, as decided by the Promotions Committee from whose decision there shall be no appeal.

A student will not be allowed to repeat an Evaluation Session more than once, nor may he or she repeat a subsequent Evaluation Session if such repetition would seem indicated because of failure in evaluations, except on special recommendation of the Promotions Committee, acting upon the motion of the representatives on the committee of the Course or Department concerned.

There shall be Promotions Committees for each Evaluation Session, consisting of the Dean or his delegate, the Associate Dean of Medical Education, the Associate Dean of Admissions, the Chairman of the Electives Program and the representatives appointed by the Dean of all major and minor courses given during the session. Each committee will pass on all cases of students who fail to satisfy course requirements in the respective session.

No evaluation, examination mark, etc., shall be considered final until passed by the Promotions Committee.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his or her instructors, he or she is incompetent. There can be no appeal from this decision.

Because the Evaluation System has a significant influence on the whole of the educational process, it is under constant review by the Faculty Evaluation Committee. Any of the rules and regulations published here or in previous calendars must not be considered inviolate; the Faculty reserves the right to change any of these rules and regulations at any time, although in general such changes as are made will not come into effect in the middle of a session.

4.8 REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

- 1) Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty years of age and of good moral character.
- 2) He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of medicine, approved by this University.
- 3) No one is permitted to become a candidate for the degree who has not attended at least two full academic years at this University.
- 4) Every candidate for the degree must have passed all the required evaluations in the subjects comprising the Medical Course.

Intern Matching Services

A matching service is a clearinghouse designed to help final year medical students obtain the internships of their choice and to help hospitals and

internship program directors obtain the students of their choice. It provides an orderly method for students to decide where to intern and for hospitals to decide which applicants they wish to enroll. For both students and program directors, it removes the factors that generate unfair pressures and premature decisions.

The matching service acts as the student's agent on the instructions embodied in the student's confidential list of all the internships for which he or she has applied, ranked in order of preference. Similarly, the matching service acts as the hospital's agent on the instructions embodied in its confidential list of all the students who have applied, ranked in order of the hospital's preference.

In the past few years final year students at McGill have participated in three different matching services. The Quebec Intern Matching Service sponsored by the Professional Corporation of Physicians of Quebec matches applicants from Quebec universities seeking mixed or rotating internships in Quebec hospitals. The Canadian Intern Matching Service matches applicants for straight, mixed or rotating internships in over 120 training programs across Canada. The National Intern Matching Service matches applicants to American internship programs.

An explanation of these matching services is provided to third-year medical students in the spring.

4.9 REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfill all the licencing requirements of the country in which they intend to practice medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to licence is vested in a licencing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licencing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licencing body of the country in which they intend to practise and obtain from that licencing body the necessary instructions.

Non-Canadian candidates wishing to practise medicine in the Province of Quebec must have a working knowledge of French before they will be granted a permanent licence.

LANGUAGE REQUIREMENT FOR PROFESSIONS

Quebec law now requires that candidates seeking admission to provincially-recognized professional

corporations* must possess a working knowledge of the French language, i.e. be able to communicate verbally and in writing in that language.

To demonstrate this capability, a candidate will normally be required to pass an examination set by the Régie de la langue française, unless he or she can show that three years of instruction in a French post-primary school have been completed. The professional corporation will require this proof of attendance or of successful completion of the Régie examination.

This examination shall test the candidates mastery of oral and written comprehension and expression in French. The contents may vary in accordance with the current terminological requirements of the profession or professional group. Examinations will take place four times a year, and they may be attempted an unlimited number of times.

In special cases where the candidate can clearly demonstrate to the Régie by means of an interview that a true mastery of French exists, the examination requirement may be waived.

Information on the testing program of the Régie may be obtained by writing to: Régie de la langue française, 800, Place Victoria, 16e étage, Montréal, Québec, H4Z 1G8, Telephone 873-6571.

Students who need to acquire a functional level of proficiency in French may register in courses at either the French Language Centre, 3438 McTavish Street, Telephone 392-5727, for courses during the day, or at the Centre for Continuing Education, 772 Sherbrooke Street West, Telephone 392-4901, for courses in the evening.

Students already proficient in French but who wish to keep up practice may register in courses at the Department of French Language and Literature, 3460 McTavish Street, Telephone 392-4577, or at the Centre d'études canadiennes-françaises, 3475 Peel Street.

- * McGill degrees and diplomas currently give access to corporations regulating the activities of the following professional groups:

- Advocates
- Agronomists
- Architects
- Chartered Accountants
- Chartered Administrators
- Chartered Appraisers
- Chemists
- Dentists
- Dieticians
- Engineers
- Industrial Administration Accountants
- Industrial Relations Counsellors
- Licensed General Accountants
- Notaries
- Nurses
- Occupational Therapists
- Physicians
- Physiotherapists
- Psychologists

- Social Workers
- Speech Therapists & Audiologists
- Urbanists
- Vocational Guidance Counsellors

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

ALBERTA - Dr. L.H. le Riche, 9901 - 108th St., Edmonton, Alberta T5K 1G9
 BRITISH COLUMBIA - Dr. W.G. McClure, 1807 West 10th Ave., Vancouver, B.C. V6J 2A9
 MANITOBA - Dr. J.B. Morison, 1410-155 Carlton St., Winnipeg, Man. R3C 3H8
 NEW BRUNSWICK - Dr. Stephen D. Clark, 50 Crown Street, Saint John, N.B. E2L 2X6
 NEWFOUNDLAND - Dr. G.M. Brownrigg, 47 Queens Rd., St. John's, Newfoundland A1C 2A7
 NOVA SCOTIA - Dr. M.R. Macdonald, Sir Charles Tupper Medical Building, 10th Floor, University Ave., Halifax, N.S. B3H 4H7
 ONTARIO - Dr. D.M. Aitken, 64 Prince Arthur Ave., Toronto, Ont. M5R 1B4
 PRINCE EDWARD ISLAND - Dr. S. MacDonald, 206 Spring Park Rd., Charlottetown, P.E.I. C1A 3Y9
 QUEBEC - Dr. A. Roy, 1440 Ste. Catherine St. West, Montreal, P.Q. H3G 1S5
 SASKATCHEWAN - Dr. A.W. Thomson, 211 - 4th Ave. S., Saskatoon, Sask. S7K 1N1

Medical Council of Canada

In order to take the examination of the Medical Council of Canada, a candidate must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Box 8234, 1867 Alta Vista Drive, Ottawa, Ontario K1G 3H7.

4.10 GRADUATE PROGRAMS LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine in conjunction with the basic science departments and the affiliated teaching hospitals offers a wide variety of programs leading to degrees of M.Sc. and Ph.D. or to McGill Certificates of Intern and Resident Training. Details of the graduate programs available are included in the McGill calendar of Postgraduate Training Programs and in the Calendar of Graduate Studies in Medical and Allied Sciences.

Initial inquiries should be addressed to the Associate Dean (Postgraduate Medical Education) of the Faculty of Medicine.

4.11 GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Facilities for graduate work in the basic medical sciences and in the clinical sciences are offered by many of the Departments of the Faculty of Medicine.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital, the Royal Victoria Hospital and the Montreal Neurological Institute, as well as the laboratories of the Queen Mary Veterans' Hospital, L'Institut de Recherche Clinique and the Lady Davis Institute of the Jewish General Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery and Pediatrics who are responsible for the direction of research programs; and for administrative purposes graduate work in these areas is grouped under the Division of Experimental Medicine, which is a branch of the Department of Medicine and the Division of Experimental Surgery, which is a branch of the Department of Surgery.

Inquiries concerning research training in the medical sciences should be directed to the chairman of the department in which the candidate wishes to receive his or her graduate education. Alternatively, letters may be addressed to:

Associate Dean for Graduate
Studies and Research
The Faculty of Medicine
McGill University
3655 Drummond St.
Montreal, P.Q., H3G 1Y6.

5 COURSES OF INSTRUCTION

5.1 ANATOMY

Required Courses

PHASE I

HUMAN ANATOMY 504-131D. The structure of the human body is studied by means of dissection, pre-dissected specimens, lectures, small-group tutorials and audio-visual presentations (closed circuit TV, films, and film loops). The course includes developmental, surface and radiological anatomy and an introduction to clinical anatomy. (Course coordinator: Dr. D.G. Osmond)

Texts: J.T. Aitken, G. Causey, J. Joseph and J.Z. Young, *A Manual of Human Anatomy*, Vols. 1, 2 & 3. 3rd ed. (Churchill Livingstone, 1976); J.C.B. Grant, *An Atlas of Anatomy*, 6th ed. (Williams and Wilkins, 1972); and one of the following: R.S. Snell, *Clinical Anatomy for Medical Students*, 1st ed. (Little, Brown & Co, 1973); E. Gardner, D.J. Gray and R. O'Rahilly,

Anatomy, 4th ed. (W.B. Saunders, 1975); W.H. Hollinshead, *Textbook of Anatomy*, 2nd ed. (Hoeber, 1967); R.T. Woodburne, *Essentials of Human Anatomy*, 4th ed. (Oxford University Press, 1969).

EMBRYOLOGY. This course of human developmental anatomy is integrated with the course in Human Anatomy.

Texts: J. Langman, *Medical Embryology*, 3rd ed. (Williams and Wilkins, 1974); K. Moore, *The Developing Human*, 1st ed. (Saunders, 1973).

HISTOLOGY 504-121D. The study, by means of the light and electron microscope, of various types of cells and of the structure of various tissues and organs. This course includes laboratory sessions during which sections of a variety of tissues and organs are systematically analyzed. (Course Coordinator: Dr. Y. Clermont)

Texts: A.W. Ham, *Histology*, 7th ed. (Lippincott, 1974); W. Bloom and D.W. Fawcett, *A Textbook of Histology*, 10th ed. (Saunders, 1975); E.J. Reith and M.H. Ross, *Atlas of Descriptive Histology*, 2nd ed. (Harper Row, 1970).

CENTRAL NERVOUS SYSTEM 524-121B. The Department of Anatomy is a major contributor to this Interdisciplinary Course. See Section 5.22.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Courses

For graduate courses, see the *Announcement of the Faculty of Graduate Studies and Research*.

5.2 ANESTHESIA

Anesthesia is based on the Basic Sciences which are principally acquired during Phase I of the Medicine curriculum. During this phase lecture demonstrations are conducted in resuscitative techniques by anesthetists as part of the Emergency Medicine course.

In Phases II and III during surgical rotations a series of lecture demonstrations in anesthesia-related topics are given and the opportunity afforded to spend two weeks with an anesthetist in the operating room for practical experience.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.3 BIOCHEMISTRY

Required Courses

PHASE I

BIOCHEMISTRY 507-121D. Lectures and clinical demonstrations are given, covering basic biochemistry with special relationship to disease processes. (Course coordinator: Prof. Peter Braun)

BIOCHEMISTRY 507-122D. Topics in biochemistry. By special permission of department only. (Course coordinator: Prof. Peter Braun)

ENDOCRINOLOGY 524-141B.

GROWTH AND DEVELOPMENT 524-241A. The Department of Biochemistry is a contributor to these Interdisciplinary Courses. See Section 5.22.

Electives

A limited number of students in Phases II and III may spend their elective periods in the Department. Students will be assigned original research projects under the direction of a member of its staff. They will also take part in all Departmental and group seminars and audit graduate courses. Students who plan to spend all elective periods on one project will be particularly welcome and may hope to complete a useful piece of research. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Other Courses

For students who are interested in additional studies in Biochemistry, current undergraduate and graduate courses in the Department are recommended. (See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research.*)

5.4 BIOMEDICAL ENGINEERING UNIT

Electives

Major electives are offered during Phases II and III. Details of this program are published in a separate "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Program

The Biomedical Engineering Unit provides opportunities for interdisciplinary research and training in collaboration with other departments. Graduate courses are offered for students with engineering or biomedical backgrounds. See *Announcement of the Faculty of Graduate Studies and Research.*

5.5 EPIDEMIOLOGY AND HEALTH

Required Courses

PHASE I

EPIDEMIOLOGY 513-121J. Two consecutive series of lectures, exercises and small group discussions dealing with the nature and scope of epidemiology with particular attention to its uses in clinical medicine as well as in public health.

MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY (given jointly with the Department of the History of Medicine). In a series of two-hour sessions, the economic and social implications of medical practice are explored, particularly with respect to social and personal values and priorities as they relate to sickness and health. This course is a continuation of Epidemiology 513-121J.

PHASE II

BIOLOGY OF DISEASE 524-221J. The Department of Epidemiology and Health participates in this Interdisciplinary Course. See Section 5.22.

Electives

The Department offers two types of electives. *Research electives* are open to students in Phases II and III, and may be linked with a summer research project. These electives may take one of two forms: a) students having a special interest in a field of work within the province of the Department's activities are welcome to pursue it on a tutorial basis with a member of the staff; and b) students may collaborate in research projects which are in progress. *Course electives* are available to students who wish to participate in graduate courses and projects; they may in this way obtain credit towards an M.Sc. degree. For a listing of these courses see the *Announcement of the Faculty of Graduate Studies and Research.*

Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.6 FAMILY MEDICINE

PHASE III

The Family Medicine Stream is designed to provide the student with a broad clinical experience, and a suitable base for any subsequent training pursuit. The stream's emphasis is a wholistic approach to health in the context of family and community.

The twenty-four weeks are divided into three 8 week periods. One period is related to the early period of life with an emphasis on obstetrics and neo-natal pediatrics. In a second period the student joins a group of family physicians for a period of immersion in the realities of clinical practice. Practices of various types and orientations are available

for this part of the program in rural, semi-urban and urban areas. A third period is oriented to the increasing need for medical and social care for the older population. This period provides an excellent opportunity to become familiar with problems in adult medicine.

Evaluation of the student and the program is carried on throughout the whole stream period by clinical tutors.

5.7 HISTORY OF MEDICINE

Required Courses

PHASE I

HEALTH AND THE HEALER IN THE WEST 522-121A. A series of 15 one-and-a-half hour lectures tracing the patterns of health and disease from antiquity to modern times and the development of the medical profession.

MEDICAL PRACTICE AND SOCIAL RESPONSIBILITY (given jointly with the Department of Epidemiology and Health. For description, see that Department's listing.)

From time to time, and at the request of other departments, single lectures are given on the history of special subjects within courses being taught by those departments.

Electives and Options

The Department offers a wide range of electives and first and fourth year options in many aspects of the social sciences and humanities as they relate to medicine. For details see the Options Catalogue and the "Calendar of Elective Programs". For additional information, consult the general office of the Department.

5.8 MEDICINE

Required Courses

PHASES I and II

BEHAVIOURAL SCIENCES 524-161D.
EMERGENCY 524-151B.
ENDOCRINOLOGY 524-141B. BIOLOGY OF DISEASE 524-221J.
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Medicine is a contributor to these Interdisciplinary Courses. See Section 5.22.

PHASE II

BLOCK TEACHING IN MEDICINE 526-321A/B. In this twelve week course, the student has the opportunity to build further on the clinical skills developed in the course on Introduction to Clinical Sciences. The ward is the laboratory, wherein the student sees in the patients assigned, the living embodiment of the conditions described in the textbooks. The clinical experience gained from

reading and from examination of patients leads to development of confidence and acumen, as well as to the ability to prepare a meaningful written record, which like a laboratory report, is carefully scrutinized by clinical instructors. Speciality areas of Dermatology, Ophthalmology, Neurology, Radiology, Clinical Pharmacology, Electrocardiology, all contribute to the student's experience.

By the end of the course the student is expected to be capable of handling competently all the duties of a clinical clerk.

PHASE III

The Department of Medicine will be responsible for a variety of offerings in PHASE III of the medical curriculum. Most of the students from all four streams will rotate through general medicine and in addition, students in the Medicine Stream will be offered rotations in related medical specialties.

At this level of training, the student accepts the responsibility for the initial work-up, the completion of the written record, the differential diagnosis (or problem list), the plan of investigation, the progress notes and the discharge summary of each patient assigned. By constant reading, by discussions with his resident team and by case presentations, clinical skills are further developed. In attendance at follow-up clinics, the student learns the results of his therapeutic efforts on the wards. A judicious selection of specialty conferences also assists in this process.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Experimental Medicine

See *Announcement of the Faculty of Graduate Studies and Research*.

5.9 MICROBIOLOGY AND IMMUNOLOGY

Required Courses

PHASE I

MICROBIOLOGY AND IMMUNOLOGY 528-221A. A general introduction to Microbiology and Immunology is offered in the second year of Phase I in preparation for the infectious disease portion of the BIOLOGY OF DISEASE course. Lectures and demonstrations deal with the general nature of the various groups of microorganisms, i.e., the bacteria, fungi, viruses, protozoan parasites and helminths of medical importance and the methods by which they are studied particularly for diagnostic purposes. Sterilization, disinfection and chemo-therapeutic agents are covered. Basic immunology is dealt with

FACULTY OF MEDICINE

as are host-parasite interrelationships. The course is concluded by a systematic survey of the major groups of pathogenic microorganisms.

PHASE II

BIOLOGY OF DISEASE 524-221J. The Department of Microbiology and Immunology is a major contributor to this Interdisciplinary Course. See Section 5.22.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Other Courses

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc., M.Sc.A. and Ph.D. degrees. Training in Clinical Microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department. See the *Announcements of the Faculty of Science and the Faculty of Graduate Studies and Research*.

5.10 NEUROLOGY AND NEUROSURGERY

Required Courses

PHASES I AND II

CENTRAL NERVOUS SYSTEM 524-121B. The Department of Neurology and Neurosurgery is a major contributor to this Interdisciplinary Course. See Section 5.22.

NEUROPATHOLOGY. Given in conjunction with the courses in Pathology and Biology of Disease.

INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Introduction to Clinical Sciences course. See Interdisciplinary Courses, Section 5.22.

PHASE II

CLINICS AND CONFERENCES. In conjunction with the Departments of Medicine and Surgery.

PHASE III - STREAM OPTIONS

Some of the students in the Medicine Stream and all of the students in the Psychiatry Stream will receive rotations in Clinical Neurology.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective

Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Courses

Courses are offered leading to the M.Sc. and Ph.D. Degrees. See *Announcement of the Faculty of Graduate Studies and Research*.

5.11 OBSTETRICS AND GYNECOLOGY

Required Courses

PHASE I

BEHAVIOURAL SCIENCES 524-161D.
EMERGENCY 524-151B
GROWTH AND DEVELOPMENT 524-241A.

The Department of Obstetrics and Gynecology contributes in part to the course in Behavioural Sciences and Emergency Care. A complete core course of basic sciences, as adapted to human reproduction, is incorporated as a large part of the Growth and Development course. This course coordinates with Obstetrics and Gynecology 534-321A/B in Phase II.

PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The Department of Obstetrics and Gynecology contributes to this Interdisciplinary Course. See Section 5.22.

OBSTETRICS AND GYNECOLOGY 534-321A/B. A four week period is allocated to Obstetrics and Gynecology during Phase II. The course is offered three times during this Phase and precedes in each instance eight weeks of Surgery. The course of lectures, demonstrations and clinical exposure is designed to establish a core obstetrical and gynecological experience, using as a base the material taught in the Growth and Development course in Phase I. During this course the pathophysiology of pregnancy is taught (Biology of Disease 524-221J). This total course is required as a prerequisite for electives in the McGill Department of Obstetrics and Gynecology.

PHASE III

In Phase III, the following courses and electives are offered to enlarge and enrich the Basic Course of Phase II.

Students in the Surgical Stream who have chosen the Obstetrics and Gynecology option can be assured of an 8-week clinical clerkship, well balanced in practical and theoretical experience.

For students selecting the Medicine Stream, a combined Neonatology-Obstetrical option can be taken as part of the Pediatric branch. Two clinical centres will operate this option. The student will find

the course intensive; combining, as it does, antenatal care, the identification of high risk pregnancies, intrapartum care and the follow-up of normal and sick infants. During the course students will perform, under staff supervision, the duties of clinical clerks in Case Rooms and Nurseries. They must be prepared to live in and assume continuing care of the patients allocated to them.

Students in the Family Practice Stream will have a four week rotation in Office and Community Hospital Obstetrics and Gynecology.

Electives

Any students who feel the need for further study in the subject before going on to their chosen postgraduate fields are advised to take an elective in Obstetrics and Gynecology. The choice of suitable electives is wide. Enquiries from students for counsel on suitable study courses or practical experience should be directed to: Dr. R.A.H. Kinch of the Montreal General Hospital or to Dr. T. Primrose of the Royal Victoria Hospital, either directly or through the Dean's office.

Texts: Compulsory for all students:

Page, Villee, Villee. *Human Reproduction. The Core Content of Obstetrics, Gynecology, and Perinatal Medicine*, 2nd. ed. Recommended: H. Oxorn, and W.R. Foote, *Human Labour and Birth*, 3rd. ed. (New York, Appleton, 1975); Definitive Textbooks for further study: L.M. Hellman, and J. Pritchard, *Williams Obstetrics*, 14th ed. (Appleton, N.Y., 1971); T.N.A. Jeffcoate, *Principles of Gynecology*, 4th ed. (Butterworth, London 1975); Ralph M. Wynn, *Obstetrics and Gynecology: The Clinical Core*; R. Kenneth, Niswander, *Obstetrics - Essentials of Clinical Practice*; H. Oxorn and W.R. Foote, *Human Labour and Birth*, 3rd ed.

5.12 OPHTHALMOLOGY

Required Courses

PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. As part of Introduction to Clinical Sciences, the various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized. See Interdisciplinary Courses, Section 5.22.

PRACTICAL CLINICAL OPHTHALMOLOGY. Practical Clinical Ophthalmology including OPHTHALMOSCOPY is taught at the Montreal General, Royal Victoria and Jewish General Hospitals in conjunction with the Medicine rotation.

PHASE III

In the Medicine Stream option there will be a combined Ophthalmology-Radiology rotation. Each student will rotate for a two-week period in one discipline followed by a two-week period of the

other. These options will take place at the Montreal General, Royal Victoria, Montreal Children's and Jewish General Hospitals. Each student will function as a clinical clerk in the respective Eye Department.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Texts: Scheie and Albert, *Adler's Textbook of Ophthalmology*, 8th ed. (Saunders, 1969); Vaughan, Asbury, Cook, *General Ophthalmology*; 6th ed. (Lange, 1971); Frank W. Newell, *Ophthalmology*, 2nd ed. (Mosby, 1969).

References: W.S. Duke-Elder, *System of Ophthalmology*, 12 vols. (Kimpton, 1958-72); Hogan and Zimmerman, *Ophthalmic Pathology*, 2nd. ed. (Saunders, 1962); W.S. Duke-Elder, *Parson's Diseases of the Eye*, 15th ed. (Longman, 1970).

Postgraduate Program

See *Announcement of the Faculty of Graduate Studies and Research*.

5.13 OTOLARYNGOLOGY

Required Courses

PHASE I

OTOLARYNGOLOGY. An introductory course in Clinical Anatomy pertaining to the ear, nose and throat is presented during Phase I in cooperation with the Department of Anatomy.

PHASE II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The Department of Otolaryngology is a contributor to this course, providing instruction in otolaryngological history taking and methods of physical examination.

OTOLARYNGOLOGY. "Block Time" clinical instruction is given to small groups of students as part of the Phase II Surgery rotation. In these sessions didactic lectures are given relating to ear, nose and throat disorders, and the students are given the opportunity to examine hospital patients if the group size permits.

Electives

The Department of Otolaryngology offers elective opportunities in both research and clinical studies. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Program

See *Announcement of the Faculty of Graduate Studies and Research*.

5.14 PATHOLOGY

Required Courses

PHASE I

GENERAL PATHOLOGY 546-121J. This course is largely a self-preparation program taught in seminars. It covers the principles of general pathology and their relationship to commonly encountered diseases. (Course Coordinator: Dr. D. Kahn)

PHASE II

BIOLOGY OF DISEASE 524-221J. The Department of Pathology is a contributor to this Interdisciplinary Course. See Section 5.22.

COURSE IN APPLIED PATHOLOGY. Weekly clinicopathological conferences are offered in conjunction with the Medicine rotation. (Course Administrator: Dr. J. Knaack.)

PHASE III

SURGICAL PATHOLOGY STREAM OPTION. Students in the Surgical Stream will spend 4 weeks participating in the daily activities of an active surgical pathology laboratory. Students in the Obstetrics and Gynecology branch of the Surgical Stream will have a 4 week rotation in Gynecological Pathology and Diagnostic Cytology.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Postgraduate Courses

See the *Announcement of the Faculty of Graduate Studies and Research*.

5.15 PEDIATRICS

Required Courses

PHASE III

PEDIATRICS 543-421A/B. Clerkship in Pediatrics as a member of a clinical service, provides the opportunity for experience in the management of pediatric problems under supervision. The clerkship includes ward and ambulatory rotations at the Montreal Children's Hospital and newborn experience at either the Jewish General Hospital or the Royal Victoria Hospital. The clerks participate in a series of core-material conferences in addition to the regularly scheduled educational program of the hospitals. (Coordinator: Dr. Wendy MacDonald)

PEDIATRIC STREAM OPTIONS. The Department of Pediatrics participates in three of the four streams in Phase III. A portion of the students from the Medicine and Psychiatry Streams will have an 8 week rotation in General Pediatrics while all of the students in the Family Practice Stream will have a 4 week program in Ambulatory Pediatrics. In addition, students in the Pediatric branch of the Medicine Stream will be offered a 4-week rotation in Obstetrics and Neonatology. This last rotation is offered conjointly with the Department of Obstetrics and Gynecology.

Electives

Twenty major elective opportunities are available in Phase II and III including Clinical and Ambulatory Pediatrics, Pediatric sub-specialties and pediatric research, including Biochemical Genetics, Endocrinology, Neonatology, Nephrology and Cardiorespiratory Investigation. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.16 PHARMACOLOGY AND THERAPEUTICS

The program of instruction in Pharmacology and Therapeutics is designed to provide a systematic coverage of the pharmacodynamics of the more important groups of drugs, the factors that control and modify their effects and the basis for selection and use of drugs in the treatment of disease.

Required Courses

PHASE I

PHARMACOLOGY AND THERAPEUTICS 549-221A. An introductory course concerned primarily with the pharmacodynamics of those drugs most frequently encountered in clinical practice.

PHASE II

PHARMACOLOGY AND THERAPEUTICS. The Department contributes to the Biology of Disease course emphasizing the pharmacological basis for the selection of drugs and the use of these drugs in the treatment of disease.

PHASE III

PHARMACOLOGY AND THERAPEUTICS. A variety of seminar courses covering selected areas of Pharmacology is offered. Students choose one or more of these courses in areas of their special interest. The seminars are intended to be a look in depth into special subjects rather than broad general reviews.

Electives

Facilities are available for a limited number of students to undertake research in pharmacology in any year of their medical course or during the summer.

Work in clinical pharmacology can also be arranged for students in Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.17 PHYSIOLOGY

Required Courses

PHASE I

MEDICAL PHYSIOLOGY 552-121D Lectures and Laboratories. An advanced course on the functioning of body systems. Emphasis is on aspects of system physiology relevant to disease mechanisms and clinical function testing. Topics include the physiology of blood and body fluids, circulation, central and peripheral nervous system, respiration, excretion, digestion and immunity. (Course Coordinator: Dr. C. Polosa)

CENTRAL NERVOUS SYSTEM 524-121B.
ENDOCRINOLOGY 524-141B.

The Department of Physiology contributes to these Interdisciplinary Courses. See Section 5.22.

Electives

Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Other Courses

For other undergraduate and graduate courses see the *Announcement of the Faculties of Arts and Science and Graduate Studies and Research*.

5.18 PSYCHIATRY

Required Courses

PHASE I

BEHAVIOURAL SCIENCE 524-161D. The Department of Psychiatry is a major contributor to this Interdisciplinary Course. See Section 5.22.

PHASE III

PSYCHIATRY 555-321A/B. Eight-week block training to acquaint all students (Core program) with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psycho-therapeutic and physical methods of treatment will be among the aspects covered. Students will be provided with tutors on a group basis and will also have an opportunity to become conversant with certain more specialized areas of the field of Psychiatry. An attempt will be made to provide a comprehensive exposure to current theoretical models and treatment approaches in psychiatry, to indicate the relevance of certain concepts and attitudes to non-psychiatric

medical practice, and to supply well-supervised clinical experience which is patient-oriented and responsibility-centered. (Course Coordinator: Dr. R.A. Ramsay)

PSYCHIATRY STREAM. In addition to 8 weeks of Neurology and 8 weeks of Medicine and/or Pediatrics, students choosing this stream will receive an 8-week rotation with intensive clinical experience in the areas of Psychosocial Medicine, Consultation Psychiatry, Emergency Psychiatry and Brief Psychotherapy.

Electives

Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Courses

For information regarding the Diploma Course in Psychiatry and courses leading to the M.Sc. Degree in Psychiatry, see the *Announcement of the Faculty of Graduate Studies and Research*.

5.19 DIAGNOSTIC RADIOLOGY

Required Courses

PHASE I

NORMAL ROENTGEN ANATOMY. In co-operation with the Department of Anatomy. (Professor Nogrady)

ROENTGEN DEMONSTRATIONS OF PHYSIOLOGY. In co-operation with the Department of Physiology. (Professor Fraser and Staff)

PHASE II

BIOLOGY OF DISEASE 524-221J. The Department of Diagnostic Radiology is a contributor to this Interdisciplinary Course. See Section 5.22.

SEMINARS IN DIAGNOSTIC RADIOLOGY. These are held weekly for students during their "block time" in Medicine and Surgery.

PHASE III

DIAGNOSTIC RADIOLOGY STREAM OPTIONS. During Phase III the students in the Medicine Stream will receive a 4-week rotation in a combined Diagnostic Radiology - Ophthalmology program while students in the Surgery Stream will receive a 4-week rotation in Diagnostic Radiology emphasizing diseases of surgical import. In addition, students from all streams during their "clinical clerkship" attend regular conferences with the Department of Diagnostic Radiology and the Clinical Departments of the teaching hospitals of McGill.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.20 THERAPEUTIC RADIOLOGY

Required Courses

PHASES I AND II

INTRODUCTION TO THERAPEUTIC RADIOLOGY. Includes the basic principles and applications of Radiation Physics, Radiobiology and Radiopathology of conditions treated by means of ionizing radiation. Given in conjunction with Pathology and Biology of Disease courses.

PHASE II

CLINICAL THERAPEUTIC RADIOLOGY. Teaching is integrated with the clinical rotations.

PHASE III

CLINICAL THERAPEUTIC RADIOLOGY. Continuation of the clinical program initiated in Phase II.

Electives

Major electives are offered during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

Graduate Courses

Diploma in Therapeutic Radiology. See *Announcement of the Faculty of Graduate Studies and Research*.

5.21 SURGERY

Required Courses

PHASE I

BEHAVIOURAL SCIENCE 524-161D.
EMERGENCY 524-151B.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.22.

PHASE II

BIOLOGY OF DISEASE 524-221J.
INTRODUCTION TO CLINICAL SCIENCES 524-231D.

The Department of Surgery is a contributor to these Interdisciplinary Courses. See Section 5.22.

SURGERY 564-321A/B. During the surgical rotation, the student is provided with a variety of learning experiences, so that he may learn the principles of surgery. Much of the teaching is didactic either in the Montreal General Hospital or the Royal Victoria Hospital. The student is also assigned to a surgical service where he may write case reports, act as a dresser and assist at operations. The learning experiences include lectures, case presentations, seminars, tutorial sessions, special core curriculum conferences, bedside teaching, participation in regular service and ward rounds, visits to the Emergency Department and clinical pathological conferences. (Course Co-ordinators: Drs. E.D. Monaghan and L. Ogilvy)

PHASE III

In Phase III of the new curriculum, students on a Surgical Stream will spend eight weeks as a clinical clerk in General Surgery and four weeks in an Orthopedics/Trauma Service. Students on a Medical Stream will spend four weeks as clinical clerks in either General Surgery or a Surgical Specialty.

Surgical Diseases of Children

Instruction in the Surgical Diseases of Children is given during the Pediatrics rotation.

Orthopedic Surgery

Principles of physical diagnosis of the musculoskeletal system are taught during the course on Introduction to Clinical Sciences in Phases I and II.

The principles of Orthopedic Surgery are covered during the course on Surgery in Phase II. An attempt is made to outline broadly the content of adult Orthopedics, children's Orthopedics and fractures.

Phase III clinical clerks in the Surgery Stream will generally spend four weeks in Orthopedic Surgery.

Urology

Lectures are given in Phase II during the Surgery rotation. Subject coverage includes symptoms and signs of significance, congenital anomalies, obstructive uropathy, calculous disease, genitourinary infections, abnormalities of the external genitalia, patho-physiology of micturition and neoplastic disease of the genito-urinary tract.

Electives

Major electives are offered in Surgery, Orthopedic Surgery and Urology during Phases II and III. Details are published in the "Calendar of Elective Programs" and further information can be obtained in the General Office from the Director of the Program.

5.22 INTERDISCIPLINARY COURSES

Required Courses

PHASE I

BEHAVIOURAL SCIENCES 524-161D. This course aims at facilitating medical students' familiarity with the impact of disease on a patient's style of living, his/her socio-economic security and his/her family. It covers the tasks in life as well as various styles in living from infancy to old age. Seminars are grouped along various themes and are developed around selected case material, films and audio-visual aids. The subject matter is opened up directly by patients and developed by Faculty. The student body is divided into groups to provide an opportunity to meet and discuss informally related issues with members of Faculty. Lectures and demonstrations - 79 hours (Course Coordinator: Dr. H. Caplan)

CENTRAL NERVOUS SYSTEM 524-121B. This course consists of an integrated series of lectures, laboratory classes and clinical demonstrations having to do with anatomical, physiological, biochemical and behavioural aspects of nervous system organization which have particular importance in neurological medicine, thereby preparing the student for the clinical neurology teaching that will be given in the later phases of the Medical curriculum. (Course Coordinator: Dr. Donald Lawrence)

EMERGENCY MEDICINE 524-151B. This course consists of a series of twenty sessions given in the first year providing an introduction to the principles of first aid and emergency medicine. Emphasis is placed on pre-hospital emergency care of the acutely ill and injured. The required text is *"Emergency Care and Transportation of the Sick and Injured"*, by the Committee on Injuries - American Academy of Orthopaedic Surgeons. (Course Coordinator: Dr. E.D. Monaghan)

ENDOCRINOLOGY 524-141B. This course is conducted in a series of fifty-minute lectures and is organ-oriented. Sequentially, the adrenal cortex, the thyroid, the parathyroid, the anterior pituitary and male and female gonads are covered. Each organ is viewed from the point of view of physiology, biochemistry, anatomy and clinical physiopathology. In the final hours, the endocrine control of blood pressure and of salt and water metabolism and the physiology, anatomy and clinical testing of the neuroendocrine system are covered. (Course Coordinator: Dr. J.M. McKenzie)

GROWTH, DEVELOPMENT AND HUMAN REPRODUCTION 524-241A. This course is designed to follow the major basic science course material and to illustrate how the stage of growth and development modifies the physiologic and pathologic responses of the organism. It looks at the role genetics, environmental, nutritional and hormonal factors play during the four main periods of growth - early development and major organogenesis, late fetal life, post-natal life to puberty and puberty. The course consists of lectures and small group discussions. (Course Coordinator: Dr. Eleanor Colle)

PHASE I and II

INTRODUCTION TO CLINICAL SCIENCES 524-231D. The course objective is to provide students the opportunity to make their first meaningful contact with patients. In so doing they learn, under supervision, how to take a history, conduct an examination of each of the body systems, create problem lists and arrive at reasonable diagnoses. This course, beginning in September of Year II and completed by mid-January, is the direct responsibility of the Department of Medicine, which is assisted in the teaching and supervision by the Departments of Surgery and Pediatrics. The specialty areas of Neurology, Anesthesia, Orthopedics, Urology, Plastic Surgery and Otolaryngology also have an input. At the end of the course there is an assessment of individual progress measured against the stated course objectives. (Course Coordinator: Dr. J.L. McCallum)

PHASE II

BIOLOGY OF DISEASE 524-221J. An integrated course taught under the auspices of Epidemiology and Health, Microbiology and Immunology, Pathology and Pharmacology, utilizing teachers from the entire Medical Faculty as required. The emphasis of the course will be on the pathophysiology of common disease states, and an attempt will be made to present a balanced approach to major diseases stressing factors that will influence prevention, control and treatment. It will be held primarily at the McIntyre Medical Sciences Building but small group sessions will be held at the Royal Victoria Hospital and the Montreal General Hospital where they will be integrated with students' medical and surgical rotations. (Course Coordinators: Drs. John Richardson and John Seely)

Administrative Officers	3	Medicine.....	27
Application for Admissions	16	Microbiology and Immunology	27
Anatomy	25	Neurology and Neurosurgery	28
Anesthesia	25	Obstetrics and Gynecology	28
Biochemistry	26	Ophthalmology	29
Biomedical Engineering	26	Otolaryngology	29
Buildings	8	Pathology	30
Bursaries	12	Pediatrics	30
Courses for the Degree of M.D., C.M.	19	Pharmacology and Therapeutics	30
Curriculum Review	21	Physiology	31
Epidemiology and Health	26	Prizes	14
Evaluation System	21	Programs in Medicine	16
Family Medicine	26	Psychiatry	31
Fees	18	Radiology	31
Graduate Programs	24	- Diagnostic	31
- Clinical	24	- Therapeutic	32
- Medical Sciences	25	Registration	18
History of Medicine	27	Requirements	16
Hospitals	9	- Entrance to Four-Year and Five-Year	
Interdisciplinary Courses	33	Programs	16
Intern Matching Services	23	- Licence	23
Leaves of Absence	21	- M.D., C.M.	23
Libraries	10	Scholarships	12
Loan Funds	15	Staff by Department	3
Medals	15	Surgery	32
Medical Societies	11		

MS. 544-38/65/W/19 1977-78

If undeliverable return to:
The Registrar's Office
845 Sherbrooke Street West
Montreal, PQ, Canada H3A 2T5

